



Operation and Maintenance Manual

**Product Link™ PLE702, PLE602,
PLE602P, PLE601, PL671, PL641,
PL641V2, PL631, PL631V2, PL542,
PL542V2, PL243, PL241, PL240,
PL240B, PL161, PLG641, PL143, PL141,
PL131, PL542V3, PL243V3, PL083,
PL042, and PL444 Systems**

PL6 1-UP (PRODUCTLINK)
PL2 1-UP (PRODUCTLINK)
PL1 1-UP (PRODUCTLINK)
PL0 1-UP (PRODUCTLINK)
PL5 1-UP (PRODUCTLINK)
PL7 1-UP (PRODUCTLINK)

Language: Original Instructions



Scan to find and purchase genuine Cat® parts and related
service information.



Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards, including human factors that can affect safety. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you verify that you are authorized to perform this work, and have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.



The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

A non-exhaustive list of operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. You must not use this product in any manner different from that considered by this manual without first satisfying yourself that you have considered all safety rules and precautions applicable to the operation of the product in the location of use, including site-specific rules and precautions applicable to the worksite. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that you are authorized to perform this work, and that the product will not be damaged or become unsafe by the operation, lubrication, maintenance or repair procedures that you intend to use.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Cat dealers have the most current information available.

NOTICE

When replacement parts are required for this product Caterpillar recommends using original Caterpillar® replacement parts.

Other parts may not meet certain original equipment specifications.

When replacement parts are installed, the machine owner/user should ensure that the machine remains in compliance with all applicable requirements.

In the United States, the maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual of the owner's choosing.

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Foreword

Literature Information

This manual should be stored in the operator's compartment in the literature holder or seat back literature storage area.

This manual contains safety information, operation instructions, and maintenance recommendations.

Some photographs or illustrations in this publication show details or attachments that can be different from your product.

Continuing improvement and advancement of product design might have caused changes to your product which are not included in this publication. Read, study and keep this manual with the product.

Whenever a question arises regarding your product, or this publication, please consult your Cat dealer for the latest available information.

Safety

The safety section lists basic safety precautions. In addition, this section identifies the text and locations of warning signs and labels used on the machine.

Operation

The operation section is a reference for the new operator and a refresher for the experienced operator. This section includes a discussion of gauges, switches, product controls, attachment controls, and programming information.

Photographs and illustrations guide the operator through correct procedures of checking, starting, operating and stopping the product.

Operating techniques outlined in this publication are basic. Skill and techniques develop as the operator gains knowledge of the product and its capabilities.

Maintenance

The maintenance section is a guide to equipment care.

Safety Section

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Safety Signs and Labels

SMCS Code: 7606

WARNING

Do not operate or work on this equipment unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Caterpillar dealer for replacement manuals. Proper care is your responsibility.

WARNING

Improper operation of an access platform could result in injury or death. Operators must carry out their duties properly and follow all instructions and guidelines given for the machine and access platform.

WARNING

Accidental engine starting can cause injury or death to personnel working on the equipment.

To avoid accidental engine starting, disconnect the battery cable from the negative (–) battery terminal. Completely tape all metal surfaces of the disconnected battery cable end in order to prevent contact with other metal surfaces which could activate the engine electrical system.

Turn the battery disconnect switch to the OFF position and lockout the battery disconnect switch with a safety lock.

Place a Special Instruction, SEHS7332, “Do Not Operate” tag at the start switch and battery disconnect location to inform personnel that the machine is being worked on.

Safety Messages

The warning film in Illustration 1 can be found in a location such as the dash or control panel. The warning film is clearly visible to the operator during the normal operation of the equipment.

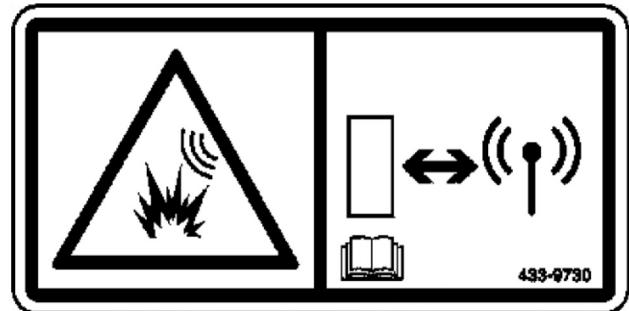


Illustration 1

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Film

WARNING

This equipment is equipped with a Cat® Product Link communication device. When electric detonators are being used for blasting operations, radio frequency devices can cause interference with electric detonators for blasting operations which can result in serious injury or death. The Product Link communication device should be deactivated within the distance mandated under all applicable national or local regulatory requirements. In the absence of any regulatory requirements Caterpillar recommends the end user perform their own risk assessment to determine safe operating distance.

General Safety Rules

The following safety rules are to be followed:

- In the event of any problem, do not open the product and contact the nearest service laboratory.
- Keep the product away from liquids.
- In the case of strange odors, noises originating from the product, it is to be immediately disconnected from the network and the service laboratory is to be contacted.
- Prior to cleaning the product, it is to be disconnected from the network.
- Installation and maintenance are to be carried out by a qualified electrician and in accordance with the electrical regulations.

Blast Site Safety

Note: If using the previous version of Product Link radios (PL121SR, 522, 523, 420, or 421) refer to blast site requirements as stated in Operation and Maintenance Manual, SEBU8142.

The blast site is defined as the area that handles explosive material during loading. Included is the perimeter that is formed by the loaded blast holes.

If required, the following are suggested methods to disable the Caterpillar Product Link communication device:

- Turn the Product Link radio disable switch to the OFF position.
- Disconnect the Caterpillar Product Link communication device from the main power source. This action is performed by disconnecting the wiring harness at the Product Link radio.
- If equipped with a PL141 or PL131 turn off the Product Link device or remove its internal battery.
- If equipped with a PL161 remove the PL161 from the equipment.
- The PL542 contains an internal battery that cannot be turned OFF manually. If necessary remove the PL542 from the equipment.
- The PL240B contains an internal battery that cannot be turned OFF manually. If necessary remove the PL240B from the equipment.
- The PL243 contains an internal battery that cannot be turned OFF manually. There is an RF disable input switch. Refer to Special Instruction, M0098124 for more details.
- The PL083 contains an internal battery that cannot be turned OFF manually. There is an RF disable input switch. Refer to Special Instruction, M0109130 for more details.

Note: If no radio disable switch is installed and the equipment will be operating near a blast zone, a radio disable switch may be installed. The switch will allow the Caterpillar Product Link communication device to be shut off by the operator from the equipment control panel. Refer to Special Instruction, REHS7339, Special Instruction, REHS8850, Special Instruction, REHS9111, Special Instruction, SEHS0377, and Special Instruction, REHS9757 for more details and installation instructions.

Consult your Cat dealer if there are any questions.

Other Films

The film in Illustration 2 can be found in a location such as the dash or control panel. The warning film is clearly visible to the operator during the normal operation of the equipment.



Illustration 2

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The film in Illustration 2 is intended to inform the operator that the equipment is equipped with a wireless transmitting device. Accordingly, data concerning this equipment, the condition of the equipment, and the operation of the equipment is being transmitted by the Caterpillar Product Link communication device to Caterpillar and is communicated to customers and Caterpillar dealers by the user interface. The data is used to serve the customer better and to improve upon Caterpillar products and services. Transmission of information using a Caterpillar Product Link communication device is subject to legal requirements that may vary from location to location.

Refer to the Operation and Maintenance Manual, SEBU8832, "Operation" and the Operation and Maintenance Manual, SEBU8832, "Regulatory Compliance" section for additional information.

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General Hazard Information

SMCS Code: 7606

WARNING

Do not operate or work on this equipment unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Caterpillar dealer for replacement manuals. Proper care is your responsibility.

Foreword

This document is a supplement to the Operation and Maintenance Manual for the equipment. Permanently attach this document to the Operation and Maintenance Manual for the equipment.

Introduction

This document provides information about the operation of the Caterpillar Product Link communication device .

Operation of the equipment and the maintenance of the equipment must not occur unless the instructions and warnings in the Operation and Maintenance Manual for the equipment have been read and the instructions and the warnings are understood. The contents of this document must be understood before the equipment that is equipped with the Caterpillar Product Link communication device is operated.

Regulatory Compliance Information

Radio Frequency Components

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Product Link (PL671 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

Table 1

Model	Cat Part Number
PL671	483 - 3663 Electronic Control Gp
PL671	520 - 4349 Electronic Control Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 2

Model	Voltage Range	Current Draw
PL671	9VDC - 32VDC	1000mA - 300mA

Table 3

WiFi Transmitter		
Model	Frequency	Power
PL671	2.402GHz - 2.480GHz	41mW Average 85mW Max
	5.170GHz - 5.835GHz ⁽¹⁾	85mW Average ⁽¹⁾ 308mW Max ⁽¹⁾

⁽¹⁾ May be restricted depending on country regulations

Table 4

Machine to Machine Transmitter			
Model	Frequency	Power	Range
PL671	5.795GHz - 5.835GHz ⁽¹⁾	103mW Average ⁽¹⁾	300m ⁽²⁾
	5.850GHz - 5.925GHz ⁽¹⁾	308mW Max ⁽¹⁾	

⁽¹⁾ May be restricted depending on country regulations

⁽²⁾ Line of Sight

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Brazil

This equipment is not entitled to harmful interference protection and may not cause interference to duly authorized systems.

Canada Notice to Users

This device complies with Industry Canadas license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference

- This device must accept any interference, including interference that may cause undesired operation of the device.

Mexico

Operation of this equipment is subject to the following two conditions:

- It is possible that this equipment or device may not cause harmful interference and;
- This equipment or device must accept any interference, including interference that may cause undesired operation.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings



EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL671 product description in the EAEU:

Telematic radio equipment Cat® brand, model PL671



Mexico – PL671 is approved for use in Mexico. Certificate No: IFT RCPCAPL22-3647

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Product Link (PLE702 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL71–Up

Table 5

Model	Cat Part Number
PLE702	494 - 6472 Communication Electronic Control Module
PLE702	494 - 6473 Communication Electronic Control Module
PLE702	494 - 6474 Communication Electronic Control Module

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 6

Model	Voltage Range	Current Draw
PLE702	9 - 32V	780mA - 320mA

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE702 product description in the EAEU: Module for reception-transmission of data from sensors, Cat brand, model PLE702.

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Product Link (PL042 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL01–Up

S/N: PL71–Up

Table 7

Model	Cat Part Number
PL042	514 - 7505 Electronic Control Module

⚠ WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union

Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 8

Model	Voltage Range	Current Draw
PL042	9 - 32V	250mA - 200mA

Table 9

Transmitter Specifications		
Model	Frequency Range	Power
PL042	824 MHz - 849 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz	0.5W typical, 2W max

Disclaimer Notice**NOTICE**

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice**Canada Notice to Users**

Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission



Singapore – Complies with IDA Standards DB105771

Thailand – This telecommunication equipment conforms to NTC technical requirement

Indonesia – 51763/SDPPI/2017



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL042 product description in the EAEU: Telematic equipment Cat brand, model PL042.



Japan – R 003 - 170036. T D170023003

i09866351

Product Link
(PL143 - If Equipped)

SMCS Code: 7490; 7606

Table 10

Model	Cat Part Number
PL143	604 - 4445 Electronic Control Module

 **WARNING**

This equipment is equipped with a radio frequency device (s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

⚠ WARNING**Care must be taken in handling lithium batteries.****Lithium batteries are not a serviceable part.****Personal injury can result from battery exploding.****Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.****Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.****Dispose of used batteries according to federal and local laws.****Reference:** Refer to the Operation and Maintenance Manual of your product for additional information.**sDoC****(Simplified Declaration of Conformity)****European Union****Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA**

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>**Great Britain****Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA**

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>**Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.****Specifications**

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 11

Model	Voltage Range	Current Draw
PL143	3.6V (internal battery)	500 mA

Table 12

Transmitter Specifications		
Model	Frequency Range	Power
PL143	699 MHz - 716 MHz	23 dBm (max)
	703 MHz - 748 MHz	
	777 MHz - 787 MHz	
	788 MHz - 798 MHz	
	814 MHz - 849 MHz	
	815 MHz - 830 MHz	
	824 MHz - 849 MHz	
	830 MHz - 845 MHz	
	832 MHz - 862 MHz	
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1710 MHz - 1780 MHz	
	1710 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
	1850 MHz - 1915 MHz	
	1920 MHz - 1980 MHz	

Disclaimer Notice**NOTICE**

This product link device cannot be deactivated and the transmission of information from the device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice**Canada Notice to Users**

This device complies with Industry Canadas license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.

FCC Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



Australia – This device is approved for use in Australia.



Malaysia – This device is approved for use in Malaysia. Certification Number: CIDF 16000205

IFETEL: RCPCAPL22-1792

Mexico – This device is approved for use in Mexico. Certification Number: IFETEL: RCPCAPL22-1792



New Zealand – This device is approved for use in New Zealand.



Singapore – This device is approved for use in Singapore. Certificate Number: DB107261



South Africa – This device is approved for use in South Africa. Certificate Number: TA-2022/0208



Taiwan – This device is approved for use in Taiwan. Certificate Number: CCAF22NB0010T1



Vietnam – This device is approved for use in Vietnam.



United Kingdom – This device is approved for use in United Kingdom.

i09866353

Product Link (PLE602 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

Table 13

Model	Cat Part Number
PLE602	517 - 4512 Electronic Control Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

 **WARNING****Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 14

Model	Voltage Range	Current Draw
PLE602	9 - 32V	630mA - 330mA

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference

- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE602 product description in the EAEU:
Module for the reception-transmission of data from
sensors, Cat brand, model PLE602.

i09870654

Product Link (PL131 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11-Up

Table 15

Model	Cat Part Number
PL131	464-7818 Communication Radio Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 16

Model	Voltage Range	Current Draw
PL131	3.6V (Internal Battery)	2A

Table 17

Transmitter Specifications		
Model	Frequency Range	Power
PL131	1616 MHz - 1626.5 MHz	1.2W (typical) 1.5W (max)

Disclaimer Notice

NOTICE

The transmission of information using a Cat Product Link communication device is subject to legal requirements. The legal requirements may vary from location to location, including, but not limited to, radio frequency use authorization. The use of a Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat Product Link communication device is located in or relocated to a location where (i) legal requirements are not satisfied or (ii) transmitting or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment.

Consult your Cat dealer with any questions that concern the operation of the Product Link system in a specific country.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada's license exempt RSSs.

Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

i09870655

Product Link
(PL141 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up

Table 18

Model	Cat Part Number
PL141	448-3379 Electronic Control Module (PRODUCT LINK 141, RADIO FREQUENCY DEVICE)

 **WARNING**

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

 **WARNING**

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC**(Simplified Declaration of Conformity)****European Union****Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA**

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 19

Model	Voltage Range	Current Draw
PL141	3.6V (Internal Battery)	2A

Table 20

Transmitter Specifications		
Model	Frequency Range	Power
PL141	824 MHz - 849 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz	0.5W (typical) 2W (max)

Disclaimer Notice**NOTICE**

The transmission of information using a Cat Product Link communication device is subject to legal requirements. The legal requirements may vary from location to location, including, but not limited to, radio frequency use authorization. The use of a Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat Product Link communication device is located in or relocated to a location where (i) legal requirements are not satisfied or (ii) transmitting or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment.

Consult your Cat dealer with any questions that concern the operation of the Product Link system in a specific country.

Certification Notices**Canada Notice to Users**

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL141 product description in the EAEU: Cellular location sensors brand Caterpillar model PL141.

i09870658

Product Link (PL240 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

Table 21

Model	Cat Part Number
PL240	505-6727 Communication Radio Gp 526-3054 Communication Installation Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 22

Model	Voltage Range	Current Draw
PL240	9 - 32V	250mA - 200mA

Table 23

Transmitter Specifications		
Model	Frequency Range	Power
PL240	824 MHz - 849 MHz	0.5W (typical) 2W (max)
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment is outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference

- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings

Costa Rica – FCC mark

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Qatar – ictQATAR. Type Approval reg. No: CRA/SA/2016/R-5433

Singapore – Complies with IMDA Standards. Dealer License: DB105771

Thailand – This telecommunication equipment conforms to NTC technical requirement

UAE (United Arab Emirates) – TRA Registered No: ER47254/16. Dealer No. DA130583/14



Australia – E401



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL240 product description in the EAEU: Telematic radio equipment based on cellular Product Link Cat brand, model PL240, PL240B.



Hong Kong – US0021800013

Indonesia – 49587/SDPPI/20173130



Japan – R 003-160123T 0160071003



New Zealand – R-NZ E401



Philippines – NTCType ApprovedNo. ESD-CPE-1703322



Ukraine – 028

i09870659

Product Link (PL241 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

Table 24

Model	Cat Part Number
PL241	444-9619 Electronic Control Module (PL241 CELLULAR)

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 25

Model	Voltage Range	Current Draw
PL241	9 - 32V	250mA - 200mA

Table 26

Transmitter Specifications		
Model	Frequency Range	Power
PL241	824 MHz - 849 MHz	0.5W (typical) 2W (max)
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

- This radio transmitter, IC: 5131A-HE910, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 3.31 dBi. Antennas not included in this list or having a gain greater than 3.31 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 443 - 8460 Antenna As Hard Mount
- 443 - 8462 Antenna As Hard Mount
- 443 - 8463 Antenna As Adhesive Mount
- 558 - 6550 Antenna As Hard Mount
- 558 - 6551 Antenna As Adhesive Mount

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL241 product description in the EAEU: Telematic radio equipment based on cellular Product Link Cat brand, model PL241.

i09870663

Product Link (PL542 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL51–Up

Table 27

Model	Cat Part Number
PL542	



WARNING

This equipment is equipped with a radio frequency device (s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.



WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.



WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 28

Model	Voltage Range	Current Range
PL542	9 - 32 V	850 mA - 225 mA

Table 29

Transmitter Specifications		
Model	Frequency Range	Power
PL542	824 MHz - 849 MHz	0.5W (typical) 2W (max)
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
PL542 (WiFi)	2401 MHz - 2484 MHz	17.5 dBm (max)
PL542 (BLE)	2400 MHz - 2400 MHz	7.5 dBm (max)

Disclaimer Notice

NOTICE

This product link device cannot be deactivated and the transmission of information from the device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with FCC Part 22, Part 24, and with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings

Benin – Approved by the ACEP of Benin Approval No: 168/ARCEP/SE/DR/DAJRC/GU/2018 Date of Agreement: 05 Sep 2018



Chad – Approved by the ARCEP of Chad. Approval Number: 57/ARCEP/DG/DRN/SAI/2018. Date of Agreement: 31/

05/18

Mauritania – Approved by the ARE of Mauritania. Approval No: 0515/ARE2018. Date of Agreement: 07/06/2018.

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Thailand – This telecommunication equipment conforms to NTC technical requirement



South Korea – This device is approved for use in South Korea. Registration No.: R-C-CTU-PL542



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL542 product description in the EAEU: Telematic radio equipment for construction machinery based on cellular communication Product Link Cat brand, model PL542.

i09870664

Product Link (PL631 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up

S/N: PL51–Up

S/N: PL61–Up

Table 30

Model	Cat Part Number
PL631	442-7199 Electronic Control Module (PRODUCT LINK ELITE 631 SATELLITE)

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual for your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 31

Model	Voltage Range	Maximum Current Draw Range
PL631	9 - 32V	2.0A - 1.3A

Table 32

Specifications		
Model	Frequency Range	Power
PL631	1616 MHz - 1626.5 MHz	5.1W max

Table 33

Specifications — Russia		
Model	Frequency Range	Power
PL631	1621.35 MHz - 1626.5 MHz	2.16 dBW

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canadas license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.
- This radio transmitter, IC: 4629A-9523, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 443 - 8462 Antenna As Hard Mount
- 443 - 8463 Antenna As Adhesive Mount
- 558 - 6550 Antenna As Hard Mount
- 558 - 6551 Antenna As Adhesive Mount

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL631 product description in the EAEU:
Telematic equipment Cat brand, model PL631.

i09870665

Product Link (PL641 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up

S/N: PL51–Up

S/N: PL61–Up

Table 34

Model	Cat Part Number
PL641	440-2104 Electronic Control Gp (PL641 CELLULAR)
PL641	440-2105 Electronic Control Gp (PROD-UCT LINK ELITE 641 CELLULAR)

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 35

Model	Voltage Range	Current Draw
PL641	9 - 32V	750mA - 225mA

Table 36

Transmitter Specifications		
Model	Frequency Range	Power
PL641	824 MHz - 849 MHz	0.5W (typical) 2W (max)
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.
- This radio transmitter, IC: 7830A-PXS8, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 2.5 dBi. Antennas not included in this list or having a gain greater than 2.5 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 443 - 8460 Antenna As Hard Mount
- 443 - 8462 Antenna As Hard Mount
- 443 - 8463 Antenna As Adhesive Mount
- 558 - 6550 Antenna As Hard Mount
- 558 - 6551 Antenna As Adhesive Mount

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL641 product description in the EAEU:
Telematic radio equipment Cat brand, model PL641.

i09952113

Product Link (PLE602P - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

Table 37

Model	Cat Part Number
PLE602P	N/A

WARNING

This equipment is equipped with a radio frequency device (s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 38

Model	Voltage Range	Current Draw
PLE602P	9 - 32V	653mA - 330mA

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment is located with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdiction or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE602P product description in the EAEU: Module for the reception-transmission of data from sensors, Cat brand, model PLE602P.

i10061627

Product Link (PLE601 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

Table 39

Model	Cat Part Number
PLE601	417-4722 Communication Electronic Control Module (PLE601 NETWORK MANAGER)
PLE601	459-0786 Communication Electronic Control Module

 **WARNING**

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 40

Model	Voltage Range	Current Draw
PLE601	9 - 32V	500mA - 300mA

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings



EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – This device is approved for use in Russia and other countries accepting EAC like Belarus, Kazakhstan, Armenia, Kyrgyzstan.



Mexico – This device is approved for use in Mexico. Certificate No.: NYC-2302C0E17386



United Kingdom – This device is approved for use in United Kingdom.

i10061633

Product Link (PLG641V2 - If Equipped)

SMCS Code: 7490; 7606

Table 41

Model	Cat Part Number
PLG641V2 (EU)	569-3109 Electronic Control Gp
PLG641V2 (NA)	569-3106 Electronic Control Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain

Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 42

Transmitter Specifications		
Model	Frequency Range	Power
PLG641V2 (NA)	704 - 716 MHz	0.5W typical 2W max
	824 - 849 MHz	
	880 - 915 MHz	
	1710 - 1755 MHz	
	1710 - 1785 MHz	
	1850 - 1910 MHz	

(continued)

(Table 42, contd)

Transmitter Specifications		
Model	Frequency Range	Power
PLG641V2 (EU)	832 - 862 MHz	
	880 - 915 MHz	
	1710 - 1785 MHz	
	1920 - 1980 MHz	
	2500 - 2570 MHz	

Disclaimer Notice**NOTICE**

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices**Canada Notice to Users**

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate with the antenna(s) listed below:

Antennas for Use:

- 588 - 9248 Antenna As Hard Mount
- 589 - 1358 Antenna As Adhesive Mount

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.


This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings

North America (NA)

 **Argentina – This device is approved for use in Argentina. Certificate ID: DI-2023-7565-APN-DNAYRT#ENACOM.**
Reference ID: HOM-EX-2023-87352212- -APN-REYS#ENACOM. CT:24771.200529172806.92



Australia – This device is approved for use in Australia.

Belize – This device is approved for use in Belize.
PUC IDENTIFIER: PUC/CI/0732020/BZE

Bolivia – This device is approved for use in Bolivia.
Certificate ID: ATT-DJ-RA-H-TL LP 396/2020



Chile – This device is approved for use in Chile. SUBTEL No. 266708 de 23.10.2020

Colombia – This device is approved for use in Colombia. CRC Settlement No.: 2020512830



Costa Rica – This device is approved for use in Costa Rica. Certificate Number: 10037-2002

Ecuador – This device is approved for use in Ecuador. Certificate ID: ARCOTEL-2020-029365

Haiti – This device is approved for use in Haiti.
Certificate Number: CNT-H-RC 0007687



Mexico – This device is approved for use in Mexico. Certificate No: IFT CACAPL23-10754

Peru – This device is approved for use in Peru.
Certificate ID: TRFM48199



United States – This device is approved for use in the United States. FCC ID: QIPPLS8-USR4

Europe (EU)

Angola – This device is approved for use in Angola.
Type Approval Certificate No.: INACOM/DEGER/2023. Equipment Type model No: 838



Australia – This device is approved for use in Australia.

Bahrain – This device is approved for use in Bahrain.
Approval No.: DLM / 1921 / 11050

Benin – This device is approved for use in Benin.
Approval Dossier No.: DAERT-2020-05-29GJO-MCMVM-1WCGO

Botswana – This device is approved for use in Botswana. Type Approval Certificate No.: BOCRA/TA/2020/5704



Brunei – This device is approved for use in Brunei. Certificate ID: DTA-006448

Burkina Faso – This device is approved for use in Burkina Faso. Approval Certificate No.: 000106/ARCEP/SG/DGSN

Cambodia – This device is approved for use in Cambodia. TRC ID: 0193-2020-41V2

Congo, The Democratic Republic of – This device is approved for use in The Democratic Republic of Congo. Certificate No.: HER-0113/Juillet/2022

Congo, The Republic of – This device is approved for use in The Republic of Congo. Certificate No.: 275/ARPCE-DG/DAJI/DRSCE/23

Ethiopia – This device is approved for use in Ethiopia. ECA/TA/No.: 1939/2022

Gambia – This device is approved for use in Gambia. Type Approval No.: TA-000-1983

Ghana – This device is approved for use in Ghana. NCA Product ID: SRO-1M-7E4-X85



Hong Kong – This device is approved for use in Hong Kong. Certification No: HK0012002324



Indonesia – This device is approved for use in Indonesia. Certificate No.: 78700/SDPPI/

2021; PLG ID: 822

Ivory Coast (Cote D'Ivoire) – This device is approved for use in Ivory Coast. Certificate No.: 3216/DG/DRCT/DCO/SHO

Lebanon – This device is approved for use in Lebanon. Certificate Reference No.: 4620/E&M/2021

Maldives – This device is approved for use in Maldives. Type Approval Certificate No.: CAM-TAC2020-22

Mali – This device is approved for use in Mali. Certificate No.: 2020-05-050/AMRTP-P

Mauritania – This device is approved for use in Mauritania. Certificate ID: 0794/ARE/2020

Morocco – This device is approved for use in Morocco. Certificate ID: ANRT/DTEC/DAA/SAG/APP/OR/304/2020

Namibia – This device is approved for use in Namibia. Type Approval ID: 2023/9813R

Niger – This device is approved for use in Niger. Certificate No.: HOMO-0043/ARCEP/DG/2020

Nigeria – This device is approved for use in Nigeria. NCC ID No. NCC/TSNI/WN/TA/CERT/3576/2020



Pakistan – This device is approved for use in Pakistan. TAC N: 9.1104/2021

Peru – This device is approved for use in Peru. Certificate ID: TRFM47740



Philippines – This device is approved for use in Philippines. Type Approval Certificate ID: ESD-CPE-2003586

Qatar – This device is approved for use in Qatar. Type Approval ID: CRA/SM/2020/S-0004608

Senegal – This device is approved for use in Senegal. Certificate ID: 071514/AG/ER



Singapore – This device is approved for use in Singapore. Letter ID: IMDA/CMALAO/EQR-003/01-02 dated 05May2022



South Africa – This device is approved for use in South Africa. Certificate ID: TA 2020/6287

South Sudan – This device is approved for use in South Sudan. Type Approval Certificate No.: RSS/NCA/TA/2018/5/145

Tanzania – This device is approved for use in Tanzania. Type Approval Certificate No.: TCRA/TAC/1638/2021



Thailand – This device is approved for use in Thailand. Certificate ID: B38497-20

Togo – This device is approved for use in Togo. Certificate No.: N03/20

Turkey – This device is approved for use in Turkey. Certificate ID: 32423510-254.01-E.40347



UAE – This device is approved for use in UAE. Certificate ID: ER88893/20

Uruguay – This device is approved for use in Uruguay. Certificate ID: VU20200515-005117



Vietnam – This device is approved for use in Vietnam. Type Approval Certificate No: C1027150921AA04A3

i10136926

Product Link (PL083 - If Equipped)

SMCS Code: 7490; 7606

Table 43

Model	Cat Part Number
PL083	545 - 3987 Communication Electronic Control Module

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 44

Model	Voltage Range	Current Draw
PL083	9V - 32V	750mA - 400mA

Table 45

Transmitter Specifications		
Model	Frequency Range	Power
PL083	1616 MHz - 1625.5 MHz	5.1W (max)
	698 MHz - 716 MHz	0.5W (typical), 2W (max)
	704 MHz - 716 MHz	
	703 MHz - 748 MHz	
	815 MHz - 830 MHz	
	824 MHz - 849 MHz	
	830 MHz - 845 MHz	
	832 MHz - 862 MHz	
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1710 MHz - 1785 MHz	
	1750 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
	2500 MHz - 2570 MHz	

Table 46

Specifications - Russia Specific		
Model	Frequency Range	Power
PL083	1621.35 MHz - 1626.5 MHz	2.3W

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdiction or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



Brazil – This device is approved for use in Brazil. Approval No. NCC 17236/19; 05565-19-07855



EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL083 product description in the EAEU: Telematic equipment Cat brand, model PL083.



Indonesia – This device is approved for use in Indonesia. Certificate #: 74822/SDPPI/2021

i10180343

Product Link (PLCN1 - If Equipped)

SMCS Code: 7490; 7606

Table 47

Model	Cat Part Number
PLCN1	616-4259 Electronic Control Gp

⚠ WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 48

Model	Voltage Range	Current Draw
PLCN1	9 - 32V	850 mA - 225 mA

Table 49

Transmitter Specifications		
Model	Frequency Range	Power
PLCN1	824 - 849 MHz	0.5W typical 2W max
	880 - 915 MHz	
	1710 - 1785 MHz	
	1880 - 1980 MHz	
	2010 - 2025 MHz	
	2300 - 2400 MHz	
	2496 - 2690 MHz	

Disclaimer Notice

NOTICE

This product link device cannot be deactivated and the transmission of information from the device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

China Notice

This device is approved for use in China.

- This device has obtained the China Compulsory Certificate.
- This device has obtained the China Radio Transmission Equipment Type Approval Certificate.
- This device has obtained the China Telecommunication Equipment Network Access License (NAL).
- The NAL label is affixed on the surface of the device. The location of the NAL label on the device is shown in Illustration 3 below.

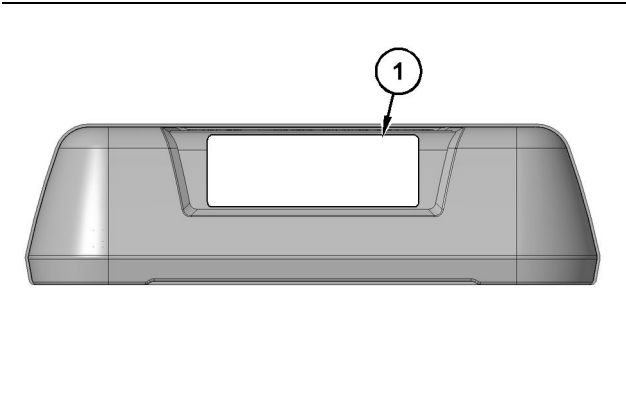



Illustration 3
PLCN1 (rear)
(1) NAL Label

g07756985

Certification Markings

 China – This device is approved for use in China.


i10249170

Product Link
(PL161 - If Equipped)


SMCS Code: 7490; 7606
S/N: PL11–Up

Table 50

Model	Cat Part Number
PL161	503 - 2958 Electronic Control Gp
	632 - 5656 Electronic Control Gp

 **WARNING**

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.


Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

 **WARNING**

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.


Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC
(Simplified Declaration of Conformity)

European Union

 Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 51

Model	Voltage Range	Current Draw
PL161	3.6V (Internal Battery)	32mA

Table 52

Transmitter Specifications		
Model	Frequency Range	Power
PL161	2.4 GHz - 2.48 GHz	2.5 mW

Disclaimer Notice

NOTICE

This product link device cannot be deactivated and the transmission of information from the device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help


Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings


 **Argentina** – This device is approved for use in Argentina. Certificate # CNC ID: C-20967



Australia – This device is approved for use in Australia.

 **Botswana** – This device is approved for use in Botswana. Certificate # BTA Registered No: BOCRA/TA/2020/3814

 **Brazil** – This device is approved for use in Brazil. Approval No. 07077-17-07855

 **Chad** – This device is approved for use in Chad. Approved by the ARCEP of Chad. Approval No. 96//ARCEP/DG/DRN/SAGPN/2020

 **China** – This device is approved for use in China. Certificate #: CM IIT ID: 2017DJ4992

 **Ghana** – This device is approved for use in Ghana. NCA Approved: 1R3-1M-7E1-15D



Hong Kong – This device is approved for use in Hong Kong. Certificate #: HK0021800054



Indonesia – This device is approved for use in Indonesia. Certificate # 52 84 6/SDPPI/2017 3130



Jamaica – This device is approved for use in Jamaica. This product contains a Type Approved Module by Jamaica : SMA - PL161



Japan – This device is approved for use in Japan. Certificate # R 001 - A11450



Jordan – This device is approved for use in Jordan. Certificate. TRC/34/7717/2020



Malaysia – This device is approved for use in Malaysia. Certification Number: CIDF17000122



Mauritania – This device is approved for use in Mauritania. Approved by the ARE of Mauritania Agreement Number: 0462/ARE/2018 Date of Agreement: 09/01/2018



Mexico – This device is approved for use in Mexico. Certificate # IFT : RCPCAPL 17-11 89



New Zealand – This device is approved for use in New Zealand.



Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission



Pakistan – This device is approved for use in Pakistan. Certificate # TAC No: 9.704 / 2018. Approved by PTA



Paraguay – This device is approved for use in Paraguay. Certificate # 2018 - 07 - I - 000313



Qatar – This device is approved for use in Qatar. Qatar Type Approval reg.No: CRA/SA/2017/R-6432



Saudi Arabia – This device is approved for use in Saudi Arabia. Certificate # TA 2018 - 1922



Serbia – This device is approved for use in Serbia. Certificate # "U" 005 17



Singapore – This device is approved for use in Singapore. Complies with IMDA Standards DA106210



South Africa – This device is approved for use in South Africa. Certificate # TA-2019/5662



South Korea – This device is approved for use in South Korea. Certificate # R-CRM-CTU-PL1 61



Thailand – This telecommunication equipment conforms to NTC technical requirement



Taiwan – This device is approved for use in Taiwan



UAE (United Arab Emirates) – This device is approved for use in UAE. TRA REGISTERED No: ER57063/17 DEALER No: DA0130583/14



Ukraine – This device is approved for use in Ukraine. Certificate # UA. TR.028



United Kingdom – This device is approved for use in United Kingdom.



Zambia – This device is approved for use in Zambia. Certificate # ZMB / ZICTA / TA / 2019/12/11



EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL161 product description in EAEU: Bluetooth transmitter Cat brand, model PL161.

i10254188

Product Link (PL641V2 - If Equipped)

SMCS Code: 7490; 7606

Table 53

Model	Cat Part Number
PL641V2	555 - 5509 Electronic Control Gp 555 - 5510 Electronic Control Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain

**Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA**

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 54

Model	Voltage Range	Current Draw
PL641V2	9 - 32V	750mA - 225mA

Table 55

Model	Frequency Range	Power
PL641V2	698 MHz - 716 MHz 704 MHz - 716 MHz 703 MHz - 748 MHz 815 MHz - 830 MHz 824 MHz - 849 MHz 830 MHz - 845 MHz 832 MHz - 862 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1710 MHz - 1785 MHz 1750 MHz - 1785 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz 2500 MHz - 2570 MHz	0.5W (typical) 2W (max)

Disclaimer Notice**NOTICE**

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices**Canada Notice to Users**

This device complies with Industry Canadas license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

- This radio transmitter, 7830A-PLS62W, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 8 dBi. Antennas not included in this list or having a gain greater than 8 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 558 - 6550 Antenna As (Hard Mount)
- 558 - 6551 Antenna As (Adhesive Mount)

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help


Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings

Angola – This device is approved for use in Angola. Declaration of Conformity: INACOM/DEGER/2023. Equipment type Model No: 484

Anguilla – This device is approved for use in Anguilla. Certificate No: PUCTA# 19:03902

Andorra – This device is approved for use in Andorra. Certificate No: AND-0219/005

 **Argentina** – This device is approved for use in Argentina. Certificate ID: EX-2021-107597857- -APN-REYS#ENACOM. CT:24771.181115115925.50

Armenia – This device is approved for use in Armenia. Certificate No.: N RA AST-016/S.A-0478-2023, Series RA N 0000484

Aruba – This device is approved for use in Aruba. Certificate Reference No.: DTZ/347/2018/IZ



Australia – This device is approved for use in Australia.

Azerbaijan – This device is approved for use in Azerbaijan. Certificate No.: SO-RF/SIV-2712(U1). Blank No.: AS 022858

Bahamas – This device is approved for use in Bahamas based on FCC certification.

Bahrain – This device is approved for use in Bahrain. Reference ID: DLM/932/6397



Belarus – This device is approved for use in Belarus. Certification ID: AND-0219/005

Belize – This device is approved for use in Belize. PUC IDENTIFIER: PUC/CI/0092019/BZE

Benin – This device is approved for use in Benin. Approval Dossier No.: 2024-32 (DAERT-2023-11-A58OC-IMSQ3-SO488)

Bhutan – This device is approved for use in Bhutan. Certificate No.: 651000040

Bolivia – This device is approved for use in Bolivia. Certificate No.: ATT-DTLTIC-RA-H-TL LP 42/2023

Bonaire, Saba, St. Eustatius – This device is approved for use in Bonaire, Saba, St Eustatius. Certificate No.: 2018/031/AT

Botswana – This device is approved for use in Botswana. Type Approval Certificate No.: BOCRA/TA/2019/4334



Brazil – This device is approved for use in Brazil. Certificate No.: 01291-20-06080. CoC certificate No.: NCC 17948/

20. The radio is designed for use in industrial and commercial installations by trained and qualified professionals, not for domestic use.

British Virgin Islands – This device is approved for use in British Virgin Islands. Certificate No.: VRGTA/007/2019

Burkina Faso – This device is approved for use in Burkina Faso. Approval Certificate No.: 2019-000006/ARCEP/SG/DGSN

Cambodia – This device is approved for use in Cambodia. TRC ID.: 0017-2019-41V2

Cameroon – This device is approved for use in Cameroon. Certificate No.: 00000304/ART/DG/DT/SDNSEA/SNH

Canada – This device is approved for use in Canada. ISED ID 7830A-PLS62W

Chad – This device is approved for use in Chad. Certificate No.: 117/ARCEP/DG/DRN/SAGPN/2023

Colombia – This device is approved for use in Colombia. Certificate No.: 2018537141

Congo, The Democratic Republic of – This device is approved for use in The Democratic Republic of Congo. Certificate No.: HER – 004/2019

Congo, The Republic of – This device is approved for use in The Republic of Congo. Certificate No.: 211/ARPCE-DG/DAJI/DRSCE/18



Costa Rica – This device is approved for use in Costa Rica. Certificate No.: 02166-SUTEL-DGC-2019

Curacao – This device is approved for use in Curacao. Certificate No.: 2019/045/TA

Djibouti – This device is approved for use in Djibouti. Certificate No.: 114/DDTIC/2023

Dominican Republic – This device is approved for use in Dominican Republic. Certificate No.: DE-0000587-19

Ecuador – This device is approved for use in Ecuador. Certification ID: ARCOTEL-2019-028473

El Salvador – This device is approved for use in El Salvador. Certification ID: DBP-004-2019

Ethiopia – This device is approved for use in Ethiopia. ECA/TA/No: 2318/2022

Gabon – This device is approved for use in Gabon. Certificate No.: 106/ARCEP/2023

Gambia – This device is approved for use in Gambia. Type Approval No.: TA-000-2247

Ghana – This device is approved for use in Ghana. NCA Product ID: ORG-M5-7E3-X21

Guatemala – This device is approved for use in Guatemala. Certificate No.: PRO-SIT-GRF-037-2019

Guinea (Guinea-Conakry ; Rep of Guinea) – This device is approved for use in Guinea. Certificate No.: H004/BCJ/ARPT/2019

Guinea Bissau – This device is approved for use in Guinea Bissau.

Guinea Equatorial (Rep of Equatorial Guinea) – This device is approved for use in Guinea Equatorial. ORTEL Certificate No.: 411/2021

Guyana – This device is approved for use in Guyana.

Haiti – This device is approved for use in Haiti. Certification ID: CNT-H-RC 0008109

Honduras – This device is approved for use in Honduras. Certification ID: 2078/2019



Hong Kong – This device is approved for use in Hong Kong. Certificate No.: US0021800045



Indonesia – This device is approved for use in Indonesia. Certification No.: 99858/SDPPI/2024 (Assembled in

Malaysia), 99859/SDPPI/2024 (Assembled in Mexico). Client ID: 822

Iraq – This device is approved for use in Iraq. Authorization No.: CMC TA 2408100

Israel – This device is approved for use in Israel.
Certificate No.: IL1941900.01 PL641V2

Ivory Coast (Cote D'Ivoire) – This device is approved for use in Ivory Coast. Certificate No.: 423/DG/DRCT/DCO/SHO/KKC 23-01724

Jamaica – This device is approved for use in Jamaica. Type Approval Equipment ID: PL641V2



Japan – This device is approved for use in Japan. Certification ID: 003-180238

Kenya – This device is approved for use in Kenya.
Certificate No.: CA/LCS/1600/00355/Vol.1

Kuwait – This device is approved for use in Kuwait.
Type Approval Certificate Ref No.: 2944

Laos – This device is approved for use in Laos.
Certificate No.: 0308/DRF

Lebanon – This device is approved for use in Lebanon. Reference No.: REQLEB112029181

Lesotho – This device is approved for use in Lesotho. Registration No.: LSO/2021/TA/153

Liberia – This device is approved for use in Liberia.
Certification ID: LTA/COMM/MGH/062/'18

Libya – This device is approved for use in Libya.
Certificate No.: 1685-TA23

Madagascar – This device is approved for use in Madagascar. Certificate No.: 19/007-CEL/ARTEC/DG/DNCSR/SNAE/RT

Malawi – This device is approved for use in Malawi.
Approval No.: 00714



184285

Malaysia – This device is approved for use in Malaysia. Approval No.: RGFN/01A/0319/S(19-0647). Serial No: E

Maldives – This device is approved for use in Maldives. Certificate No.: CAM-TAC2019-17

Mali – This device is approved for use in Mali.
Certificate No.: 2023-10-144/AMRTP-P

Mauritania – This device is approved for use in Mauritania. Certificate ID: 1388/ARE/2023

Mauritius – This device is approved for use in Mauritius. Certificate No.: ICTA/335/DE/MAY-19/TN7649; TA/2019/0453



Mexico – This device is approved for use in Mexico. Certificate ID: IFT: CACAPL23-10751

Moldova – This device is approved for use in Moldova. Certificate No.: MD OC TIP 024 CET7485-22

Mongolia – This device is approved for use in Mongolia. Certificate No.: A19000398

Morocco – This device is approved for use in Morocco. Reference No.: ANRT/DTEC/DAA/SAG/BD/238/2019

Mozambique – This device is approved for use in Mozambique. Type Approval ID: 10EBP18

Namibia – This device is approved for use in Namibia. Type Approval ID: 2018/6734

Nepal – This device is approved for use in Nepal.
Certificate No.: R-GSM-D-PP-60

Nicaragua – This device is approved for use in Nicaragua. Certificate No.: NCG-CE-18-250

Niger – This device is approved for use in Niger.
Certificate No.: 088/ARCEP/DG/19

Nigeria – This device is approved for use in Nigeria.
NCC ID No.: NCC/TSNI/WN/TA/CERT/2786/2019

North Sudan (Republic of The Sudan) – This device is approved for use in North Sudan through Type approval certificate issued on April 27, 2021.



Pakistan – This device is approved for use in Pakistan. Type Approval Certificate No.: 35824408

Panama – This device is approved for use in Panama. Certificate No.: 1803



Paraguay – This device is approved for use in Paraguay. CONATEL PY: 2024-01-I-0127

Peru – This device is approved for use in Peru.
Certification ID: TRFM43169



Philippines – This device is approved for use in Philippines. Certificate No: ESD-CPE-1903473 (555-5509); ESD-CPE-1903474 (555-5510)



Qatar – This device is approved for use in Qatar. Reference No: CRA/SM/2019/R-7618



Russia – This device is approved for use in Russia.

Rwanda – This device is approved for use in Rwanda. Certificate No.: 1697/HD/ICT/RURA/018

Saudi Arabia – This device is approved for use in Saudi Arabia. Certificate No: TA 2023-1409

Senegal – This device is approved for use in Senegal. Certificate ID: 071247/AG/ER



Serbia – This device is approved for use in Serbia. Certificate No.: 00902 01264

Seychelles – This device is approved for use in Seychelles. Reference No.: DICT/COM/66

Sierra Leone – This device is approved for use in Sierra Leone. Certificate No.: NTC-TA-18-095



Singapore – This device is approved for use in Singapore.



South Africa – This device is approved for use in South Africa. Certification ID: TA-2018/3713



South Korea – This device is approved for use in South Korea. Type Approval Certificate No.: R-R-CTU-PL641V2 and 202117210000415753

South Sudan – This device is approved for use in South Sudan. Type Approval Certificate No.: RSS/NCA/TA/2018/12/182

St. Kitts and Nevis – This device is approved for use in St. Kitts & Nevis. Certificate No.: NTRCSKN-680-12-18

St. Lucia – This device is approved for use in St. Lucia. Certificate No.: LCT/FB19.137A

St. Vincent & the Grenadines – This device is approved for use in St. Vincent & the Grenadines. Certificate No.: SVG_012920190910

Suriname – This device is approved for use in Suriname. Type Approval ID: T0090/18

Swaziland – This device is approved for use in Swaziland. Type Approval ID: TA-2021/0167



Taiwan – This device is approved for use in Taiwan.

Tajikistan – This device is approved for use in Tajikistan. Certificate No.: 070432

Tanzania – This device is approved for use in Tanzania. Certification ID: TCRA/TAC/022/2019



Thailand – This device is approved for use in Thailand. Certificate No.: B38239-19

Togo – This device is approved for use in Togo. Certificate No.: 047/24

Trinidad and Tobago – This device is approved for use in Trinidad & Tobago. Certificate No.: 2/2/1/2941/6.13

Tunisia – This device is approved for use in Tunisia. Certificate No.: AHO-2419-21

Turkey – This device is approved for use in Turkey. Certificate ID: 32423510-254.01-E.5340

Turks & Caicos Islands – This device is approved for use in Turks & Caicos Islands through approval certification dated January 18, 2019

Uganda – This device is approved for use in Uganda through approval certification dated February 05, 2019



Ukraine – This device is approved for use in Ukraine.

United Arab Emirates – This device is approved for use in United Arab Emirates. Authorization No.: ER81435/20



United Kingdom – This device is approved for use in United Kingdom.



United States – This device is approved for use in United States. FCC ID: QIPPLS62-W

Uruguay – This device is approved for use in Uruguay. Certificate ID: VU20190212-002048



Uzbekistan – This device is approved for use in Uzbekistan. Certificate No.: UZ. SMT.01.0085.113097487 (Malaysia); UZ. SMT.01.0085.107392865 (Mexico)

Venezuela – This device is approved for use in Venezuela with type approval certificate dated August 09, 2019 with DG/GGST/DHC/No: 1249



Vietnam – This device is approved for use in Vietnam. Certificate No.: B0636130521AA04A3 (Mexico); C0497180621AA04A3 (Malaysia)



Zambia – This device is approved for use in Zambia. Certificate No.: ZMB/ZICTA/TA/2019/2/31

Zimbabwe – This device is approved for use in Zimbabwe. Certificate No.: POZ1376

i10262280

Product Link (PL631V2 - If Equipped)

SMCS Code: 7490; 7606

Table 56

Model	Cat Part Number
PL631V2	544 - 1881 Electronic Control Module (PRODUCT LINK 631 SATELLITE)

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 57

Model	Voltage Range	Current Draw
PL631V2	9 - 32V	950mA - 260mA

Table 58

Transmitter Specifications		
Model	Frequency Range	Power
PL631V2	1616 MHz - 1626.5 MHz	5.1W (max)

Table 59

Transmitter Specifications - Russia		
Model	Frequency Range	Power
PL631V2	1621.35 MHz - 1626.5 MHz	2.16 dBW

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada's license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference

- This device must accept any interference, including interference that may cause undesired operation of the device.
- This radio transmitter, IC: 4629A-9523N, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 443 - 8462 Antenna As Hard Mount
- 443 - 8463 Antenna As Adhesive Mount
- 558 - 6550 Antenna As Hard Mount
- 558 - 6551 Antenna As Adhesive Mount

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings

Angola – This device is approved for use in Angola. Declaration of Conformity: INACOM/DEGER/2023



Argentina – This device is approved for use in Argentina. Certificate ID: HOM EX-2024-21543786- -APN-

REYS#ENACOM. CT:24771.180216125609.37

Aruba – This device is approved for use in Aruba. Certificate Reference No.: DTZ/2557/2018/HTZ



Australia – This device is approved for use in Australia.

Azerbaijan – This device is approved for use in Azerbaijan. Certificate No.: SO – RF/SiV - 4313, Blank No.: AS 023560; SO - SF//SiV - 427, Blank No.: AS 023562; SO - EMC/SiV - 360, Blank No.: AS 023561

Bahamas – This device is approved for use in Bahamas. Certificate No.: URCA_TA/2018_041



Belarus – This device is approved for use in Belarus.

Belize – This device is approved for use in Belize. PUC IDENTIFIER: PUC/CAT/0182018/BZE

Benin – This device is approved for use in Benin. Approval Decision No.: 2023-020/ARCEP/PT/SE/DJPC/DAR/DCT/GU

Bolivia – This device is approved for use in Bolivia. Certificate No.: ATT-DJ-RA-H-TL LP 189/2023

Botswana – This device is approved for use in Botswana. Type Approval Certificate No.: BOCRA/TA/2018/3936



Brazil – This device is approved for use in Brazil. Certificate: 04067-14-07855; CoC certificate No.: UL-BR 18.0406

Burkina Faso – This device is approved for use in Burkina Faso. Approval Certificate No.: 2018-000296/ARCEP/SG/DGSN

Cameroon – This device is approved for use in Cameroon. Certificate No.: 00000144/ART/DG/DT/SDNSEA/SNH/CA

Chad – This device is approved for use in Chad. Certificate No.: 006/ARCEP/DG/DRN/SAGPN/2023

Congo, The Democratic Republic of – This device is approved for use in The Democratic Republic of Congo. Certificate No.: HIR – 0057/2018

Congo, The Republic of – This device is approved for use in The Republic of Congo. Certificate No.: 011/ARPCE-DG/DAJI/DRSCE/18

Curacao – This device is approved for use in Curacao. Certificate No.: 2018/122/TA

Djibouti – This device is approved for use in Djibouti. Certificate No.: 022/DDTIC/2023

Ecuador – This device is approved for use in Ecuador. Certificate ID: ARCOTEL-CCDH-2018-0300-OF

El Salvador – This device is approved for use in El Salvador. Certificate No.: DBP-030-2018

Ethiopia – This device is approved for use in Ethiopia. ECA/TA/No.: 2822/2023

Gabon – This device is approved for use in Gabon. Certificate No.: 166/ARCEP/2024

Gambia – This device is approved for use in Gambia. Type Approval No.: TA-000-2161

Ghana – This device is approved for use in Ghana. NCA Product ID: CN4-H7-GE2-04E

Guatemala – This device is approved for use in Guatemala. Certificate No.: SIT-DH-055-2018

Guinea – This device is approved for use in Guinea. Certificate No.: H0077/BCJ/ARPT/2018

Guinea Bissau – This device is approved for use in Guinea Bissau.

Guinea Equatorial – This device is approved for use in Guinea Equatorial. ORTEL Certificate No.: 83/2024

Haiti – This device is approved for use in Haiti. Authorization No.: CNT-H-RC 0000403

Honduras – This device is approved for use in Honduras. Certificate No.: 1809/2018



Indonesia – This device is approved for use in Indonesia. Certification No.: 99576/SDPPI/2024. Client ID: 822

Iraq – This device is approved for use in Iraq. Authorization No.: CMC TA 2306952 A

Ivory Coast (Cote D'Ivoire) – This device is approved for use in Ivory Coast. Certificate No.: 0070/DG/DRCT/DCO/SHO/KKC

Jamaica – This device is approved for use in Jamaica. Type Approval No.: SMA - PL631V2



Japan – This device is approved for use in Japan. Certificate No.: JRF-005-101585-001

Kenya – This device is approved for use in Kenya. Certificate No.: CA/LCS/1600/00432/Vol.1

Kuwait – This device is approved for use in Kuwait. Type Approval Certificate Ref No.: 2404

Lesotho – This device is approved for use in Lesotho. Registration Number: LSO/2021/TA/154

Liberia – This device is approved for use in Liberia. Certificate No.: LTA/COMM/IGB/016/'18

Libya – This device is approved for use in Libya. Certificate No.: 1514-TA23

Madagascar – This device is approved for use in Madagascar. Certificate No.: 18/013/ARTEC/DG/DHCT/SSS/test

Malawi – This device is approved for use in Malawi. Approval No.: 00595



Malaysia – This device is approved for use in Malaysia. Approval No.: RBAU/05A/0418/S(18-1402). Serial No: E

156060

Mali – This device is approved for use in Mali. Certificate No.: 2023-02-015/AMRTP-P

Mauritania – This device is approved for use in Mauritania. Certificate ID: 1277/ARE/2023

Mauritius – This device is approved for use in Mauritius. Certificate No.: TA/2018/0326



Mexico – This device is approved for use in Mexico. Certificate ID: IFT: CACAPL22-31279

Moldova – This device is approved for use in Moldova. Certificate No.: MD OC TIP 024 A6159-18

Mongolia – This device is approved for use in Mongolia. Certificate No.: A18000228

Mozambique – This device is approved for use in Mozambique. Certificate No.: 1/R/MTD/2018

Namibia – This device is approved for use in Namibia. Type Approval ID: TA – 2024/10 677R

New Caledonia – This device is approved for use in New Caledonia. Approval ID: ANFR/NC/AAI/15955342. RIDET: 2085588

Nicaragua – This device is approved for use in Nicaragua. Certificate No.: NCG-CE-18-113

Nigeria – This device is approved for use in Nigeria. NCC ID No.: NCC/TSNI/WN/TA/CERT/2149/2018

North Sudan – This device is approved for use in North Sudan through Type approval certificate issued on April 27, 2021.

Panama – This device is approved for use in Panama. Certificate No.: 2534

Papua New Guinea – This device is approved for use in Papua New Guinea. Certificate No.: PNG17/1210



Paraguay – This device is approved for use in Paraguay. Certificate Number(s): 2018-07-I-000323; 2023-05-I-0336

Peru – This device is approved for use in Peru. Certificate ID: TRFM41118



Russia – This device is approved for use in Russia.

Rwanda – This device is approved for use in Rwanda. Certificate No.: 190/HD/ICT/RURA/018

Senegal – This device is approved for use in Senegal. Certificate ID: 071031/AG/ER



Serbia – This device is approved for use in Serbia. Certificate No.: 34540-1/22-10

Sierra Leone – This device is approved for use in Sierra Leone. Certificate No.: NTC-TA-18-079



Singapore – This device is approved for use in Singapore. Certificate No.: S2778-19



South Africa – This device is approved for use in South Africa. Certificate ID: TA 2018/109



South Korea – This device is approved for use in South Korea. Type Approval Certificate No.: R-RMM-C TU-PL631V2

South Sudan – This device is approved for use in South Sudan. Type Approval Certificate No.: RSS/NCA/TA/2018/2/85

St. Lucia – This device is approved for use in St. Lucia. Certificate No.: LCT/AP18.1273

St. Vincent & the Grenadines – This device is approved for use in St. Vincent & the Grenadines. Certificate No.: SVG_030220181430

Suriname – This device is approved for use in Suriname. Type Approval ID: T0026/16

Swaziland – This device is approved for use in Swaziland. Type Approval ID: TA-2021/0169

Tanzania – This device is approved for use in Tanzania. Certificate No.: TCRA/TAC/141/2018

Togo – This device is approved for use in Togo. Certificate No.: 040/23

Trinidad and Tobago – This device is approved for use in Trinidad & Tobago. Certificate No.: 2/2/1/2941/6.10

Tunisia – This device is approved for use in Tunisia. Certificate No.: AHO-2422-21

Turkey – This device is approved for use in Turkey. Certificate ID: 32423510-254.01-E.23196

Turks & Caicos Islands – This device is approved for use in Turks & Caicos Islands through approval certification dated April 25, 2018.

Uganda – This device is approved for use in Uganda through approval certification dated March 14, 2018.



Ukraine – This device is approved for use in Ukraine. Certificate ID: 10094.005985-18. TARIC Code: 8517. Type Examination: 1268.7-CET



United Kingdom – This device is approved for use in United Kingdom.



United States – This device is approved for use in United States. FCC ID: Q639523N

Uruguay – This device is approved for use in Uruguay. Certificate ID: VU2018-000956



Uzbekistan – This device is approved for use in Uzbekistan. Certificate No.: UZ. SMT.01.0085.107392090

Venezuela – This device is approved for use in Venezuela with type approval certificate dated February 22, 2018.

Vietnam – This device is approved for use in Vietnam. Certificate No.: 0172/2018/CB-TT1



Zambia – This device is approved for use in Zambia. Certificate No.: ZMB/ZICTA/TA/2018/2/47

Zimbabwe – This device is approved for use in Zimbabwe. Certificate No.: POZ 704

i10262327

Product Link (PL542V3 - If Equipped)

SMCS Code: 7490; 7606

Table 60

Model	Cat Part Number
PL542V3	626 - 6824 Communication Installation Gp
	625 - 7860 Communication Radio Gp

⚠ WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union

Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain

Caterpillar Inc. 100 NE Adams Peoria, IL
61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 61

Model	Voltage Range	Current Range
PL542V3	9 - 32V	850mA - 225mA

Table 62

Transmitter Specifications			
PL542V3 (Cellular Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
824-849	869-894	GSM 850 (2G)	33 dBm
880-915	925-960	GSM 900 (2G)	33 dBm
1710-1785	1805-1880	GSM 1800 (2G)	30 dBm
1850-1910	1930-1990	GSM 1900 (2G)	30 dBm
1920-1980	2110-2170	1 (3G)	24 dBm
1850-1910	1930-1990	2 (3G)	24 dBm
1710-1785	1805-1880	3 (3G)	24 dBm
1710-1755	2110-2155	4 (3G)	24 dBm
824-849	869-894	5 (3G)	24 dBm
830-840	875-885	6 (3G)	24 dBm
880-915	925-960	8 (3G)	24 dBm
830-845	875-890	19 (3G)	24 dBm
1920-1980	2110-2170	1 (4G)	23 dBm
1850-1910	1930-1990	2 (4G)	23 dBm
1710-1785	1805-1880	3 (4G)	23 dBm
1710-1755	2110-2155	4 (4G)	23 dBm
824-849	869-894	5 (4G)	23 dBm
2500-2570	2620-2690	7 (4G)	23 dBm
880-915	925-960	8 (4G)	23 dBm
699-716	729-746	12 (4G)	23 dBm
777-787	746-756	13 (4G)	23 dBm
704-716	734-746	17 (4G)	23 dBm
815-830	860-875	18 (4G)	23 dBm
830-845	875-890	19 (4G)	23 dBm
832-862	791-821	20 (4G)	23 dBm
859-894	814-849	26 (4G)	23 dBm
703-748	758-803	28 (4G)	23 dBm
2570-2620	2570-2620	38 (4G)	23 dBm
2300-2400	2300-2400	40 (4G)	23 dBm
2535-2675	2535-2675	41 (4G)	23 dBm
1710-1780	2110-2200	66 (4G)	23 dBm

Table 63

Radio Transmitter Specifications			
PL542V3 (WiFi Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
2401-2484	2401-2484	b	17.5 dBm
2401-2484	2401-2484	g	14.0 dBm
2401-2484	2401-2484	n	12.5 dBm

Table 64

Transmitter Specifications			
PL542V3 (BLE Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
2400	2483.5	N/A	7.5 dBm

Table 65

Transmitter Specifications			
PL542V3 (GNSS Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
N/A	1575.42 - 1610	L1	N/A

Disclaimer Notice

NOTICE

This product link device cannot be deactivated and the transmission of information from the device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

China Notice

This device is approved for use in China.

- This device has obtained the China Compulsory Certificate.
- This device has obtained the China Radio Transmission Equipment Type Approval Certificate.
- This device has obtained the China Telecommunication Equipment Network Access License (NAL).
- The NAL label is affixed on the surface of the device. The location of the NAL label on the device is shown in Illustration 4 below.

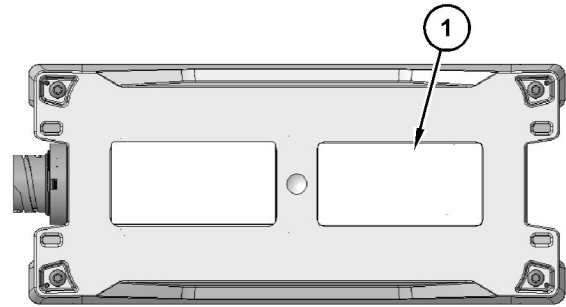


Illustration 4

g07756293

PL542V3 (bottom)

(1) NAL Label

FCC Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Mexico Notice

Operation of this equipment is subject to the following two conditions:

- It is possible that this equipment or device may not cause harmful interference and;
- This equipment or device must accept any interference, including interference that may cause undesired operation.

Certification Markings

Angola – This device is approved for use in Angola.

 C-29915

Argentina – This device is approved for use in Argentina. Certificate Number C-29915



Armenia – This device is approved for use in Armenia. Certificate Number AST-016/S.A-0201-2023



Australia – This device is approved for use in Australia. Certificate Number P23127LR

Azerbaijan – This device is approved for use in Azerbaijan. Certificate Number SO-RF/SIV-4125

Bahrain – This device is approved for use in Bahrain. Certificate Number DLM / 1921 / 11644

Barbados – This device is approved for use in Barbados. MED # 3252

Belize – This device is approved for use in Belize. Certificate Number N23/104-DCP/ARTEC/DG/DNCSR/SNAESR/TEST 32023/BZE

Benin – This device is approved for use in Benin. Certificate Number N 2023-149 / ARCEP / SE / DAR / GU

Bahamas – This device is approved for use in Bahamas.

Botswana – This device is approved for use in Botswana. Certificate Number BOCRA/TA/2023/8463



Brazil – This device is approved for use in Brazil. ANATEL ID : 08262-24-07855

Burkina Faso – This device is approved for use in Burkina Faso. Certificate Number N2023 - 000104/ARCE/SE/DGSN

Canada – This device is approved for use in Canada.



Cameroon – This device is approved for use in Cameroon. Certificate Number 00000396/ART/DG/DT/SDNSEA/SNH

Cambodia – This device is approved for use in Cambodia. Certificate Number RC-TA-2023-0406

Central African Republic – This device is approved for use in the Central African Republic.

Chad – This device is approved for use in Chad. Certificate No.: 42/ARCEP/DG/DRN/SAGPN/2024

Chile – This device is approved for use in Chile. Certificate Number N-5146/DO N 97.539/F60



China – This device is approved for use in China. Certificate # CMIIT ID: 2023CJ13925; NAL ID: 17-B304-232788

Congo (The Democratic Republic of) – This device is approved for use in Congo (The Democratic Republic of). Certificate Number HER - 064/AVRIL/2023

Congo (The Republic of) – This device is approved for use in Congo (Republic of). Certificate Number 488/ARPCE-DG/DAJI/DRSCE/23

Cote D'Ivoire – This device is approved for use in Cote D'Ivoire. Certificate Number 155/DG/DRCT/DCO/SHO/KKC 23 00705



Costa Rica – This device is approved for use in Costa Rica. Certificate Number 10041-2023.

Ecuador – This device is approved for use in Ecuador. Certificate Number ARCOTEL-2023-033315

Equatorial Guinea – This device is approved for use in Equatorial Guinea. Certificate No.: ORT973TL

Gabon – This device is approved for use in Gabon. Certificate Number 738/ARCEP/2024

Ghana – This device is approved for use in Ghana. Certificate Number HS-7E7-X87-DSR

Guyana – This device is approved for use in Guyana. Certificate Number 334-20230710-233

Haiti – This device is approved for use in Haiti.
Certificate Number CNT/DG-299-23

Honduras – This device is approved for use in Honduras. Certificate Number 3974/2023

India – This device is approved for use in India.
Certification No.: ETA-SD-20240707086

94527/SDPP/2023
822
Indonesia – This device is approved for use in Indonesia. Certificate Number PB-UMKU: 812010785390500110125

Iraq – This device is approved for use in Iraq.
Certificate Number CMC TA 23010106

Israel – This device is approved for use in Israel.
Certificate Number 7352367224

Ivory Coast / Cote D'Ivoire – This device is approved for use in Ivory Coast / Cote D'Ivoire.
Certificate Number 155/DG/DRCT/DCO/SHO/KKC 23 00705

Jamaica – This device is approved for use in Jamaica.

Jordan – This device is approved for use in Jordan.
Certificate Number T/4/11/11/3921 Approval #: TRC/34/11990/2023

EAC **Kazakhstan** – This device is approved for use in Kazakhstan. Certificate Number KZ 7100841.13.12.02254

Kenya – This device is approved for use in Kenya.
Certificate Number 7095

Kuwait – This device is approved for use in Kuwait.
Certificate Number 6892

Laos – This device is approved for use in Laos.
Certificate Number 0331/DRF

Lebanon – This device is approved for use in Lebanon.

Lesotho – This device is approved for use in Lesotho. Certificate Number LSO/2023/TA/88

Liberia – This device is approved for use in Liberia.
Certificate Number LTA/COMM-CKM/021/'24

Madagascar – This device is approved for use in Madagascar. Certificate Number 23/104-DCP/ARTEC/DG/DNCSR/SNAESR/TEST

Malawi – This device is approved for use in Malawi.
Certificate Number 01453



Malaysia – This device is approved for use in Malaysia. Certificate Number: CIDF17000122

Maldives – This device is approved for use in Maldives. Certificate Number CAM-TAC-2023-21

Mali – This device is approved for use in Mali.
Certificate Number 2023-05-039/AMRTP-P



Mauritania – This device is approved for use in Mauritania. Certificate No.: 1446/ARE/2024



Mexico – PL542V3 is approved for use in Mexico. Certificate No: CACAPL24-04154

Moldova – This device is approved for use in Moldova. Certificate Number MD OC TIP 024 CET 7899-23

Mongolia – This device is approved for use in Mongolia. Certificate Number A23000960

Morocco – This device is approved for use in Morocco. Certificate Number MR00037950ANRT2023

Mozambique – This device is approved for use in Mozambique. Certificate Number 42/T/ETD/2023

Namibia – This device is approved for use in Namibia. Certificate Number TA-2023/9927

Nepal – This device is approved for use in Nepal.
Certificate Number R-GSM-D-P-3474



New Zealand – This device is approved for use in New Zealand. Certificate Number P23127LR

Nicaragua – This device is approved for use in Nicaragua. Certificate Number NCG-CE-23-124

Nigeria – This device is approved for use in Nigeria.
Certificate Number 0000 0000 3809



Pakistan – This device is approved for use in Pakistan. Certificate Number 9.677/2023

Panama – This device is approved for use in Panama. Certificate Number 5911



Paraguay – This device is approved for use in Paraguay. Certificate Number 1143/2023



Philippines – This device is approved for use in Philippines. Certificate Number ESD-GEC-2308159

Peru – This device is approved for use in Peru. Certificate Number TRFM55924

Qatar – This device is approved for use in Qatar. Certificate Number CRA/SM/2023/S-0013539

Rwanda – This device is approved for use in Rwanda. Certificate No.: RURA/ICT/AUT/240401650

Saudi Arabia – This device is approved for use in Saudi Arabia. Certificate Number TA 2023-1092

Senegal – This device is approved for use in Senegal. Certificate Number 072576 / AG / ER



Serbia – This device is approved for use in Serbia. Certificate Number 1623071000

Sierra Leone – This device is approved for use in Sierra Leone. Certificate Number 2023-002-0041



Singapore – This device is approved for use in Singapore. Certificate No.: DB107261



South Africa – This device is approved for use in South Africa. Certificate Number TA-2023/0695



South Korea – This device is approved for use in South Korea. The length of all cables actually connected to the product is less than 3M. Approval Certificate No.: R-C-CTU-PL542V3

Sudan – This device is approved for use in Sudan.

Suriname – This device is approved for use in Suriname. Certificate Number T0181/21

Swaziland – This device is approved for use in Swaziland. Certificate Number TA - 2023/0105



Taiwan – This device is certified and approved for use in Taiwan. Certificate # CCAH244G0060T2

Tajikistan – This device is approved for use in Tajikistan. Certificate No.: TJ 762.37100.01.005-2021-0259

Tanzania – This device is approved for use in Tanzania. Certificate Number TCRA/TECELMC/0009/2023



Thailand – This device is approved for use in Thailand. Certificate Number B38355-23

Trinidad and Tobago – This device is approved for use in Trinidad and Tobago. Certificate Number 2/2/1/2941/6.3

Uganda – This device is approved for use in Uganda. Certificate Number T10318052023



Ukraine – This device is approved for use in Ukraine. Certificate Number UA.TR.052



United Arab Emirates – This device is approved for use in United Arab Emirates. Certificate Number TIC-D01-

CS01

Uruguay – This device is approved for use in Uruguay. Certificate Number VU20230413-002811

Venezuela – This device is approved for use in Venezuela. Certificate Number DG/GGST/DHC/1048



Uzbekistan – This device is approved for use in Uzbekistan. Certificate No.: UZ. SMT.01.0085.105051155



Zambia – This device is approved for use in Zambia. Certificate Number ZMB / ZICTA / TA / 2023 / 5 / 17

Zimbabwe – This device is approved for use in Zimbabwe. Certificate Number POZ1776

i10263215

Product Link (PL444 - If Equipped)

SMCS Code: 7490; 7606

Table 66

Model	Cat Part Number
PL444 (NA)	604 - 9580 Electronic Control Gp
PL444 (EU)	604 - 9581 Electronic Control Gp

 **WARNING**

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

 **WARNING**

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.


Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)


European Union

 **Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA**

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU” . The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain

 **Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA**

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 67

Model	Operating Voltage	Current Draw
PL444 (NA) PL444 (EU)	9 - 32V	525mA - 150mA

Table 68

Model	Frequency Range	Power
PL444 (NA)	699 - 716 MHz	0.2W (typical) 1.78W (maximum)
	777 - 787 MHz	
	824 - 849 MHz	
	1710 - 1755 MHz	
	1850 - 1910 MHz	
PL444 (EU)	2500 - 2570 MHz	0.2W (typical) 1.78W (maximum)
	703 - 748 MHz	
	832 - 862 MHz	
	880 - 915 MHz	
	1710 - 1785 MHz	
	1920 - 1980 MHz	
	2500 - 2570 MHz	

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings

North America (NA)



Argentina – This device is approved for use in Argentina. Certification # DI-2022-5585-APN-DNAYRT#ENACOM

Bahamas – This device is approved for use in Bahamas. Certificate # URCA_TA_2021_143

Barbados – This device is approved for use in Barbados. MED #: 2944

Belize – This device is approved for use in Belize. Certificate # PUC/CI/1262021/BZE

Bolivia – This device is approved for use in Bolivia. Certificate # ATT-DJ-RA-H-TL LP 42/2022



Brazil – This device is approved for use in Brazil. Approval No. 10461-23-07855

Chile – This device is approved for use in Chile. Ref: 5604

Colombia – This device is approved for use in Colombia. CRC ID: 2021529545



Costa Rica – This device is approved for use in Costa Rica. CP-PL444(NA)-01; 10030-2022

Curacao – This device is approved for use in Curacao. Certificate # 2021/177/TA

Ecuador – This device is approved for use in Ecuador. Certificate # ARCOTEL-2021-031337

Guyana – This device is approved for use in Guyana. Certificate # 334/317/DC/2021

Haiti – This device is approved for use in Haiti. Certificate # CNT/DG-965-22

Honduras – This device is approved for use in Honduras. Certificate # 20211213HM53

Jamaica – This device is approved for use in Jamaica.



Mexico – This device is approved for use in Mexico. Certification # CACAPL22-23257

Nicaragua – This device is approved for use in Nicaragua. Certificate # NCG-CE-22-045

Panama – This device is approved for use in Panama. DTEL #: 0752



Paraguay – This device is approved for use in Paraguay. Certificate # 2869/2021

Peru – This device is approved for use in Peru. Certificate # 2101645

Suriname – This device is approved for use in Suriname. Certificate # T0181/21

Trinidad & Tobago – This device is approved for use in Trinidad & Tobago. Certificate # 2/2/1/2941/6

Uruguay – This device is approved for use in Uruguay. Certificate # VU20220203-000909

Venezuela – This device is approved for use in Venezuela. Certificate # DG/GGST/DHC/N: 0537

Europe (EU)

Angola – This device is approved for use in Angola. NACOM #: 1318



Australia – This device is approved for use in Australia.

Bahrain – This device is approved for use in Bahrain. Certificate # APV-TAC-1121-TRM-604



Belarus – This device is approved for use in Belarus.

Benin – This device is approved for use in Benin. Certificate No: 2023-085/ARCEP/SE/DJPC/DAR/GU

Burkina Faso – This device is approved for use in Burkina Faso. Certificate # 2022-000003/ARCEP/SG/DGSN

Cameroon – This device is approved for use in Cameroon. Certificate # 00001115/ART/DG/DT/SDNSEA/SNH

Chad – This device is approved for use in Chad. Certificate # 124/ARCEP/DG/DRN/SAGPN/2021

Congo, The Democratic Republic of – This device is approved for use in The Democratic Republic of Congo.
Certificate # HER - 0111/Juin/2022

The Republic Of Congo – This device is approved for use in The Republic Of Congo. Certificate # 244/ARPCE-DG/DAJI/DRSCE/21

Cote D'Ivoire – This device is approved for use in Cote D'Ivoire. Certificate # 3803/DG/DRCT/DCO/SHO/KKC 21 01680

Djibouti – This device is approved for use in Djibouti. Certificate # 171/DDTIC/2021

Ethiopia – This device is approved for use in Ethiopia. Certificate # ECA/TA/NO. 1692/2021

Fiji – This device is approved for use in Fiji. Certificate # FJ21/31WL/12412

Gabon – This device is approved for use in Gabon. Certificate # 1184/ARCEP/2021

NCA APPROVED TEST 78/028/028

Ghana – This device is approved for use in Ghana. Certificate # 7E5-7M-XD9-RDR**India – This device is approved for use in India.**
Registration #: ETA-SD-20220201304**Indonesia – This device is approved for use in Indonesia. Certificate # 81943/SDPPI/2022 822****Iraq – This device is approved for use in Iraq. CMC TA 2105080****Israel – This device is approved for use in Israel. MOC cert #: 11-11683 MOE #: 48732972****Japan – This device is approved for use in Japan. Certificate # 021-B23002****Kazakhstan – This device is approved for use in Kazakhstan. Certification # EA3C KZ 7100841.13.12.01280****Kuwait – This device is approved for use in Kuwait.**
Ref: 5764**Lebanon – This device is approved for use in Lebanon. Certificate # 4012/E&M/2022; 141177090****Libya – This device is approved for use in Libya.**
Certificate # 1201-TA21**Madagascar – This device is approved for use in Madagascar. Certificate # 21/352-DCP/ARTEC/DG/DNCSR/SNAESR/test****Malaysia – This device is approved for use in Malaysia. Certification # 153569****Mali – This device is approved for use in Mali.**
Certificate # 2022-05-088/AMRTP-P**Mongolia – This device is approved for use in Mongolia. Certificate # A21000577****Morocco – This device is approved for use in Morocco. Certificate # ANRT/DTEC/DAA/SAG/OR/01/2022****New Zealand – This device is approved for use in New Zealand.****Niger – This device is approved for use in Niger.**
Certificate # HOMO-0105-ARCEP/DG/DR/DHA/2021

NCC/TSNI/WN/TA/CERT/4838/2021

Nigeria – This device is approved for use in Nigeria. Certificate # NCC/TSNI/WN/TA/CERT/4838/2021**Pakistan – This device is approved for use in Pakistan. TAC #: 9.227/2022****Palestine (West Bank) – This device is approved for use in Palestine (West Bank). Certificate # MTIT/2021/232**

2022

Papa New Guinea – This device is approved for use in Papa New Guinea. Certification # PNG21/1935 Ref # N077-**Philippines – This device is approved for use in Philippines. Certificate # ESD-GEC-2207232****Qatar – This device is approved for use in Qatar.**
Certificate # CRA/SM/2021/S-0008794**Rwanda – This device is approved for use in Rwanda. Certificate # RURA/ICT/AUT/220206535**

AGREED FOR IMPORTATION

Senegal – This device is approved for use in Senegal. Certificate # 072134/AG/ER**Sierra Leone – This device is approved for use in Sierra Leone. Certificate # 2021-002-0127**COMPLIES WITH
IMDA STANDARDS
DB107261**Singapore – This device is approved for use in Singapore. Certificate # IMDA/CMALAO/EQR-003/01-02. Complies with IMDA Standards DB107261.****South Africa – This device is approved for use in South Africa. Certificate # EA-2022/0705; Classification 3****Sudan (North) – This device is approved for use in Sudan (North).****Tanzania – This device is approved for use in Tanzania. Certificate # TCRA/TAC/1912/2022****Thailand – This device is approved for use in Thailand. Certificate #: B38090-22; Letter #: STC 2407/7839****Togo – This device is approved for use in Togo.**
Certificate No.: 034/23**Tunisia – This device is approved for use in Tunisia.**
Certificate # AHO-2598-21

THE REGISTERED AND PROTECTED
TRADE MARK OF CATERPILLAR

UAE (United Arab Emirates) – This device is approved for use in UAE. Certificate # ER04693/22

Uganda – This device is approved for use in Uganda. Certificate # TI0227012022



Ukraine – This device is approved for use in Ukraine. Certificate # UA.032. CT.0520-21



United Kingdom – This device is approved for use in United Kingdom.



Uzbekistan – This device is approved for use in Uzbekistan. Certificate No.: UZ. SMT.01.0085.107393275



Vietnam – This device is approved for use in Vietnam. Certificate #: C0162170222AA04A3; EMC Report #: DVREQCN2202-0116

Yemen – This device is approved for use in Yemen. Certificate # MTIT/TA220111/SRD



Zambia – This device is approved for use in Zambia. Certificate # ZMB/ZICTA/TA/2022/1/53

i10269344

Product Link (PL243V3 - If Equipped)

SMCS Code: 7490; 7606

Table 69

Model	Cat Part Number
PL243V3	625 - 1684 Electronic Control Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 70

Model	Voltage Range	Current Draw
PL243V3	9V - 32V	225mA - 120mA

Table 71

Transmitter Specifications			
PL243V3 (Cellular Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
824-849	869-894	GSM 850 (2G)	33 dBm
880-915	925-960	GSM 900 (2G)	33 dBm
1710-1785	1805-1880	GSM 1800 (2G)	30 dBm
1850-1910	1930-1990	GSM 1900 (2G)	30 dBm
1920-1980	2110-2170	1 (3G)	24 dBm
1850-1910	1930-1990	2 (3G)	24 dBm
1710-1785	1805-1880	3 (3G)	24 dBm
1710-1755	2110-2155	4 (3G)	24 dBm
824-849	869-894	5 (3G)	24 dBm
830-840	875-885	6 (3G)	24 dBm
880-915	925-960	8 (3G)	24 dBm
830-845	875-890	19 (3G)	24 dBm
1920-1980	2110-2170	1 (4G)	23 dBm
1850-1910	1930-1990	2 (4G)	23 dBm
1710-1785	1805-1880	3 (4G)	23 dBm
1710-1755	2110-2155	4 (4G)	23 dBm
824-849	869-894	5 (4G)	23 dBm
2500-2570	2620-2690	7 (4G)	23 dBm
880-915	925-960	8 (4G)	23 dBm
699-716	729-746	12 (4G)	23 dBm
777-787	746-756	13 (4G)	23 dBm
704-716	734-746	17 (4G)	23 dBm
815-830	860-875	18 (4G)	23 dBm
830-845	875-890	19 (4G)	23 dBm

(continued)

(Table 71, contd)

Transmitter Specifications			
PL243V3 (Cellular Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
832-862	791-821	20 (4G)	23 dBm
859-894	814-849	26 (4G)	23 dBm
703-748	758-803	28 (4G)	23 dBm
2570-2620	2570-2620	38 (4G)	23 dBm
2300-2400	2300-2400	40 (4G)	23 dBm
2535-2675	2535-2675	41 (4G)	23 dBm
1710-1780	2110-2200	66 (4G)	23 dBm

Table 72

Transmitter Specifications			
PL243V3 (GNSS Frequency)			
Uplink (MHz)	Downlink (MHz)	Band	Output Power
N/A	1598.0625- 1609.3125	L1	N/A

Disclaimer Notice

NOTICE

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

China Notice

This device is approved for use in China.

- This device has obtained the China Compulsory Certificate.
- This device has obtained the China Radio Transmission Equipment Type Approval Certificate.
- This device has obtained the China Telecommunication Equipment Network Access License (NAL).
- The NAL label is affixed on the surface of the device. The location of the NAL label on the device is shown in Illustration 5 below.

Certification Notices

Canada Notice to Users

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

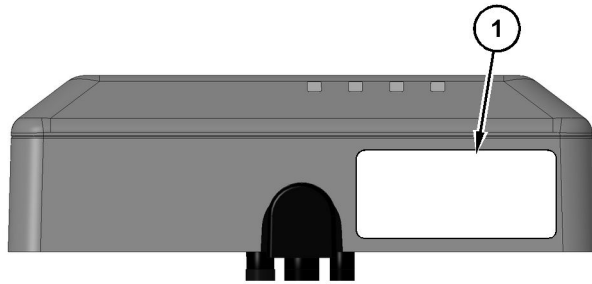


Illustration 5

g07756977

PL243V3 (rear)

(1) NAL Label

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings



Argentina – This device is approved for use in Argentina. Certificate No.: H-29684



Australia – This device is approved for use in Australia.



Brazil – This device is approved for use in Brazil. Approval No. 21219-23-07855



China (CoO Malaysia) – This device is approved for use in China. Certificate # CMIIT ID: 2023CJ16652; NAL ID: 17-B304-233225



China (CoO Mexico) – This device is approved for use in China. Certificate # CMIIT ID: 2023CJ16652; NAL ID: 17-B304-233225



Congo, The Democratic Republic of – This device is approved for use in The Democratic Republic of Congo. Certificate # HER-063/Avril/2023



Costa Rica – This device is approved for use in Costa Rica. Certification No: 10023-2023



Djibouti – This device is approved for use in Djibouti. Certificate # 047/DDTIC/2023



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

Ethiopia – This device is approved for use in Ethiopia.

Ghana – This device is approved for use in Ghana. NCA APPROVED: HS-7E7-X82-DSR



Indonesia (CoO Malaysia) – This device is approved for use in Indonesia. Certification No: 92676/SDPPI/2023 PLG ID: 822



Indonesia (CoO Mexico) – This device is approved for use in Indonesia. Certification No: 92674/SDPPI/2023 PLG ID: 822



Japan – This device is approved for use in Japan. T - D220627217, R - 217-220627

Mauritania – This device is approved for use in Mauritania. Approval No: 1264/ARE/2023. Date of Agreement: 04/05/2023



Mexico – This device is approved for use in Mexico. Certificate No: NYC-2302CT1188 IFT: CACAPL23-30178

Morocco – This device is approved for use in Morocco. Approval No: MR00037951ANRT2023, Date of Agreement: 02/05/2023



New Zealand – This device is approved for use in New Zealand.



Nigeria – This device is approved for use in Nigeria.



Pakistan – This device is approved for use in Pakistan. TAC #: 9.569/2023



Paraguay – This device is approved for use in Paraguay. Certification No: 2023-05-I-0346



Philippines – This device is approved for use in Philippines. Certification No: ESD-CPE-2303867



Senegal – This device is approved for use in Senegal. Certificate # 072575/AG/ER



Serbia – This device is approved for use in Serbia. Certificate # "I" 005 23



South Africa – This device is approved for use in South Africa. Certificate # TA-2023/0773



South Korea – This device is approved for use in South Korea. The length of all cables actually connected to the product is less than 3M. Approval Certificate No.: R-C-CTU-PL243V3, R-C-QIP-PLS63-W-B

Sri Lanka – This device is approved for use in Sri Lanka. Certificate ID: TRCSL/RTTE-3/3/23-180



Thailand – This telecommunication equipment is in compliance with NBTC requirements. Certificate No: B38432-23-

2566



Ukraine – This device is approved for use in Ukraine.



United Arab Emirates – This device is approved for use in United Arab Emirates. Certificate Number ER21307/

23



Uzbekistan – This device is approved for use in Uzbekistan.



Zambia – This device is approved for use in Zambia. Certificate Number ZMB/ZICTA/TA/2023/5/16

i10269357

Product Link (PL542V2 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL51-Up

Table 73

Model	Cat Part Number
PL542V2	555-5511 Communication Radio Gp 581-8919 Communication Installation Gp
PL542V2 (4G)	599-3617 Communication Radio Gp 564-1327 Communication Radio Gp

WARNING

This equipment is equipped with a radio frequency device(s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union

Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive "2014/53/EU". The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain

Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 74

Model	Voltage Range	Current Draw
PL542V2	9 - 32V	850mA - 225mA

Table 75

Transmitter Specifications		
Model	Frequency Range	Power
PL542V2	698 MHz - 716 MHz 704 MHz - 716 MHz 703 MHz - 748 MHz 815 MHz - 830 MHz 824 MHz - 849 MHz 830 MHz - 845 MHz 832 MHz - 862 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1710 MHz - 1785 MHz 1750 MHz - 1785 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz 2500 MHz - 2570 MHz	0.5W (typical) 2W (max)
PL542V2 (WiFi)	2401 MHz - 2484 MHz	17.5 dBm (max)
PL542V2 (BLE)	2400 MHz - 2400 MHz	7.5 dBm (max)

Disclaimer Notice**NOTICE**

This product link device cannot be deactivated and the transmission of information from the device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notice**Canada Notice to Users**

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with FCC Part 22, Part 24, and with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

Certification Markings



Argentina – This device is approved for use in Argentina. Certificate ID: EX-2020-24329612- -APN-REYS#ENACOM. CT:24771.200406170202.23



Indonesia – This device is approved for use in Indonesia. Certification ID: 69921/SDPPI/2020



Mexico – This device is approved for use in Mexico. Certificate # IFT : CACAPL23-10748



Philippines – This device is approved for use in Philippines. Type Acceptance Certification #: ESD-GEC-2006373

Thailand – This telecommunication equipment is in compliance with NBTC requirement



Zambia – This device is approved for use in Zambia. Type Approval Ref. ID: ZMB/ZICTA/TA/2020/10/3



EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL542V2 product description in the EAEU:

Telematic radio equipment based on cellular communication Product Link Cat brand, model PL542V2.

i10269362

Product Link (PL243 - If Equipped)

SMCS Code: 7490; 7606

Table 76

Model	Cat Part Number
PL243	550 - 3269 Electronic Control Gp (PRODUCT LINK 243 CELLULAR)

WARNING

This equipment is equipped with a radio frequency device (s). When electric detonators are being used for blasting operations, radio frequency devices can cause interference, which can result in serious injury or death. Caterpillar recommends that the end user perform their own risk assessment to determine a safe operating distance, and, at all times, maintain the radio frequency device outside the distance mandated under all applicable national or local regulatory requirements.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

⚠ WARNING**Explosion Hazard!**

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

sDoC

(Simplified Declaration of Conformity)

European Union

Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with directive “2014/53/EU”. The full text of the European Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Great Britain

Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

Hereby, Caterpillar Inc. declares this radio equipment is in compliance with the relevant statutory requirements. The full text of the Great Britain Declaration of Conformity is available at the following web address:

<https://www.cat.com/radio-compliance>

Caterpillar suggests that the Declaration of Conformity is obtained shortly after purchase.

Specifications

The following Cat Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 77

Model	Voltage Range	Current Draw
PL243	9V - 32V	225mA - 120mA

Table 78

Transmitter Specifications		
Model	Frequency Range	Power
PL243	698 MHz - 716 MHz	0.5W (typical), 2W (max)
	704 MHz - 716 MHz	
	703 MHz - 748 MHz	
	815 MHz - 830 MHz	
	824 MHz - 849 MHz	
	830 MHz - 845 MHz	
	832 MHz - 862 MHz	
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1710 MHz - 1785 MHz	
	1750 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
	2500 MHz - 2570 MHz	

Disclaimer Notice**NOTICE**

The transmission of information from this product link device may be subject to various legal requirements depending on the jurisdiction in which the equipment outfitted with the device is located. These legal requirements may include, but are not limited to, radio frequency use authorization. The transmission of information from this device must be limited to those locations where all legal requirements for the use of this device and communication network have been satisfied. Note that if the equipment outfitted with this device is located in or relocated to a location where (i) the transmission of information from the device would not comply with the legal requirements of the local jurisdictional or (ii) the transmission or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment. Consult your Cat dealer with any questions that concern the operation of this system in a specific jurisdiction.

Certification Notices**Canada Notice to Users**

This device complies with Industry Canada license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users' authority to use this device.

Certification Markings



Brazil – This device is approved for use in Brazil. Approval No. 04424-19-07855



EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL243 product description in the EAEU: Telematic Radio equipment Cat brand, model PL243.



Indonesia – This device is approved for use in Indonesia. Certification ID: 72986/SDPPI/2021



Mexico – This device is approved for use in Mexico. Certificate No: IFT CACAPL23-10743



Thailand – This telecommunication equipment is in compliance with NBTC requirements. Certificate ID: B38437-19

Product Information Section

Identification Information

i07833783

Manufacturing Information

SMCS Code: 7606

Product Information

Entity authorized by the manufacturer at the territory of Eurasian Economic Union:

Caterpillar Eurasia LLC.

75, Sadovnicheskaya Emb.

Moscow, 115035, Russia

Phone: +7 (495) 2133340, Fax: +7 (495) 2133372,
email: cat_moscow@cat.com

Manufacturer: Caterpillar Inc.

100 NE Adams Street Peoria, Illinois 61629 United States of America

Date of Manufacture

Markings on the device and or package contain information about the date of manufacture, or a link to the source of this information. If required, the date of manufacture can be obtained by the serial number of the product, by contacting your authorized dealer.

Term and Conditions of Storage and Transportation

The product is packed in consumer packaging of manufacturer. The product should be stored in the factory packing and storage conditions for climatic factors of Group 4 in accordance with GOST 15150-69. When loading and transportation requirements on warning labels on the boxes must be followed, shocks and bumps that can affect the appearance and performance of the device should not be allowed.

Transportation can be done by all kinds of covered transport vehicles. When transporting by air, ensure that the Product Linkdevice is transported in a sealed heated compartment.

Actions In Case of Technical Failures

Before calling to the dealer for repair, the integrity of the electric wires, and cycle the battery power to the device. Cycling battery power can be accomplished by:

- Turn the machines master disconnect off and then back on.
- Unplug the Product Link harness from the machine connector and then plug the harness back in.
- Disconnect the negative cable from the negative battery terminal and then reconnect the cable.

If these solutions do not help, call for service.

Proper Disposal

Proper disposal of devices upon failure is required according to local regulations. This process may be through the warranty return process, reman, or scrap of material.

Operation Section

Operation

i08024860

System Overview

SMCS Code: 7606

Note: Your equipment may be equipped with a Caterpillar Product Link communication device.

The Caterpillar Product Link communication device utilizes cellular and/or satellite technology to communicate equipment information. This information is communicated to Caterpillar, Cat dealers, and Caterpillar customers. The Caterpillar Product Link communication device contains a Global Positioning System (GPS) satellite receiver.

Note: The Product Link PL161 does not contain a GPS receiver.

The capability of two-way communication between the equipment and a remote user is available with the Caterpillar Product Link communication device. The remote user can be a dealer or a customer.

Note: The Product Link PL161 does not support two-way communication.

Note: All Product Link devices with an internal antenna and all devices with an associated transmitting antenna must be located more than 20 cm (7.874 inch) from the machine operator to comply with FCC Regulations for RF human body safety.

Information for the initial installation of the Caterpillar Product Link communication device is available in Special Instruction, REHS7339, Special Instruction, REHS8850, Special Instruction, REHS9111, Special Instruction, SEHS0377, Special Instruction, REHS9757, and Special Instruction, M0077632.

Operation, configuration, and troubleshooting information for the Caterpillar Product Link communication device can be found in the Systems Operation, Troubleshooting, Testing and Adjusting, UENR3697, Systems Operation, Troubleshooting, Testing and Adjusting, UENR5823, Systems Operation, Troubleshooting, Testing and Adjusting, UENR5824, Systems Operation, Troubleshooting, Testing and Adjusting, M0070044, Systems Operation, Troubleshooting, Testing and Adjusting, M0076820, and Systems Operation, Troubleshooting, Testing and Adjusting, UENR6983.

Data Broadcasts

Data concerning this equipment, the condition of the equipment, and the operation of the equipment is being transmitted by the Caterpillar Product Link communication device to Caterpillar and is communicated to customers and Caterpillar dealers by the user interface. The data is used to serve the customer better and to improve upon Caterpillar products and services. The information transmitted may include: equipment serial number, equipment location, and operational data, including but not limited to: fault codes, emissions data, fuel usage, service meter hours, software, and hardware version numbers and installed attachments.

Caterpillar and/or Cat dealers may use this information for various purposes. Refer to the following list for possible uses:

- Providing services to the customer and/or the equipment
- Checking or maintaining Product Link system
- Monitoring the health or performance of the equipment
- Helping maintain the equipment and/or improve the efficiency of the equipment
- Evaluating or improving Caterpillar products and services
- Complying with legal requirements and valid court orders
- Performing market research
- Offering the customer new products and services

Caterpillar may share some or all the collected information with Caterpillar affiliated companies, dealers, and authorized representatives. Caterpillar will not sell or rent collected information to any other third party and will exercise reasonable efforts to keep the information secure. Caterpillar recognizes and respects customer privacy. For more information, please contact your local Cat dealer.

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Product and Dealer Information

Note: For product identification plate locations, see the section “Product Identification Information” in the Operation and Maintenance Manual.

Delivery Date: _____

Product Information

Model: _____

Product Identification Number: _____

Engine Serial Number: _____

Transmission Serial Number: _____

Generator Serial Number: _____

Attachment Serial Numbers: _____

Attachment Information: _____

Customer Equipment Number: _____

Dealer Equipment Number: _____

Dealer Information

Name: _____ Branch: _____

Address: _____

	<u>Dealer Contact</u>	<u>Phone Number</u>	<u>Hours</u>
Sales:	_____	_____	_____
Parts:	_____	_____	_____
Service:	_____	_____	_____

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