

Operation and Maintenance Manual

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

PL6 1-UP (Machine Control & Guidance Products)
PL2 1-UP (Machine Control & Guidance Products)
PL1 1-UP (Machine Control & Guidance Products)
PL0 1-UP (Machine Control & Guidance Products)
PL5 1-UP (Machine Control & Guidance Products)

PL7 1-UP (Machine Control & Guidance Products)

Language: Original Instructions



Scan to access the latest service information, purchase additional media, and buy genuine Cat® parts.



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.

SEBU8832-26 5
Safety Section

Safety Section

i08024861

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.

MARNING

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.

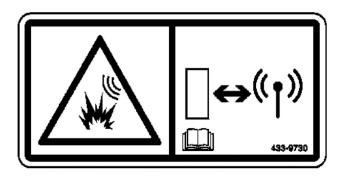


Illustration 1 Film

g03356592

Safety Signs and Labels

MARNING

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.

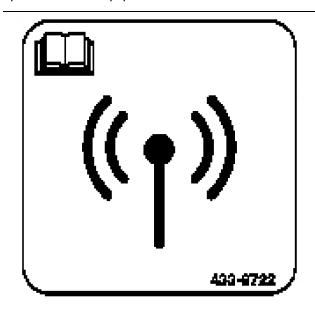


Illustration 2 g03356733

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

i08694211

Product Link

(PL542 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL51-Up

MARNING

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.

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.

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 1

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	824 MHz - 849 MHz	
	880 MHz - 915 MHz	
PL542	1710 MHz - 1755 MHz	0.5 W typical, 2 W max
	1850 MHz - 1910 MHz	2 W Max
	1920 MHz - 1980 MHz	

Table 2

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL542	9 - 32 V	850 mA - 225 mA

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



05/18

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

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.

i08694220

Product Link

(PL444 - If Equipped)

SMCS Code: 7490; 7606

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.

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.

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.

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 3

tter Power
, typical
maximum
, typical
maximum

Table 4

Operating Voltage and Current Draw		
Device	Voltage Range	Maximum Current Draw
PL444 (NA) PL444 (EU)	9 - 32V	525 - 150mA

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.

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Product Link

(PL243 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

Table 5

Model	Cat Part Number
PL243	550-3269

A 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.

MARNING

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.

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.

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

Radio Transmitter Specifications			
Model	Transmitter Frequency Range	Transmitter Power	
	698 MHz - 716 MHz		
	704 MHz - 716 MHz		
PI 24.3			
	815 MHz - 830 MHz		
	824 MHz - 849 MHz		
	830 MHz - 845 MHz		
	832 MHz - 862 MHz	0.5W typical,	
	PL243	2W max	
	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 7

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL243	9–32V	225mA - 120mA

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

EHC

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

The PL243 product description in the EAEU: Telematic Radio equipment Cat brand, model PL243.

Thailand – This telecommunication equipment is in compliance with NBTC requirements

i08703254

Product Link

(PL042 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL01–Up **S/N:** PL71–Up

Table 8

Model	Cat Part Number
PL042	514-7505

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.

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.

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 9

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	824 MHz - 849 MHz	
	880 MHZ - 915 MHz	0 = 1444
PL042	1710 MHz - 1755 MHz	0.5W typical, 2W max
	1850 MHz - 1910 MHz	ZWIIIAX
	1920 MHz - 1980 MHz	

Table 10

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Cur- rent Draw
PL042	9 - 32V	250 mA - 200 mA

Certification Notices

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

i08703255

Product Link

(PL083 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL01-Up

Table 11

Model	Cat Part Number
PL083	545-3987

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.

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.

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.

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 12

	Specifications		
Model	Transmitter Frequency Range	Transmitter Power	
	1616 MHz - 1625.5 MHz	5.1W max	
	698 MHz - 716 MHz		
	704 MHz - 716 MHz		
	703 MHz - 748 MHz		
	815 MHz - 830 MHz		
	824 MHz - 849 MHz		
	830 MHz - 845 MHz		
PL083	832 MHz - 862 MHz	0.5W typical,	
	880 MHz - 915 MHz	2W max	
	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 13

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

Table 14

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL083	9–32V	750mA - 400mA

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



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

The PL083 product description in the EAEU: Telematic equipment Cat brand, model PL083.

i08703257

Product Link

(PL131 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11-Up

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.

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

17

Specifications

⚠ 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.

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 15

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
PL131	1616 MHz - 1626.5 MHz	1.2W Typical, 1.5W max

Table 16

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL131	3.6V Internal Battery	2A

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.

i08703258

Product Link

(PL141 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up

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.

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.

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

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.

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 17

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

Table 18

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL141	3.6V Internal Battery	2A

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

EAC

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

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

i08703259

Product Link

(PL161 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11-Up

Table 19

Model	Cat Part Number
PL161	503-2958

MARNING

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.

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.

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

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.

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 20

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

Table 21

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

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 - CNC ID: C-20967







Botswana – BTARegistered No: BOCRA/ TA/2020/3814



Brazil - Approval No. 07077-17-07855



Chad – Approved by the ARCEP of Chad. Approval No. 96//ARCEP/DG/DRN/SAGPN/2020



China - CM IIT ID: 2017DJ4992



Ghana – NCA Approved: 1R3-1M-7E1-15D



Hong Kong – Certificate Number: HK0021800054



Indonesia - 52 84 6/SDPPI/2017 3130



Jamaica – This product contains a Type Approved Module by Jamaica : SMA – PL161



Japan - R 001 - A11450



Jordan - TRC/34/7717/2020



Malaysia – Certification Number: CIDF17000122



Mauritania – Approved by the ARE of Mauritania Agreement Number: 0462/ARE/2018 Date of Agreement: 09/01/

2018



Mexico – IFT: RCPCAPL 17-11 89



New Zealand



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

Commission



Pakistan – TAC No: 9.704 / 2018. Approved by PTA



Paraguay - 2018 - 07 - I - 000313



Qatar – ict Qatar Type Approval reg.No: CRA/SA/2017/R-6432



Saudi Arabia - TA 2018 - 1922



Serbia - "И" 005 17



Singapore – Complies with IMDA Standards DA106210



South Africa – TA-2019/5662



South Korea – R-CRM-CTU-PL1 61



Thailand – This telecommunication equipment conforms to NTC technical requirement



Taiwan



UAE (United Arab Emirates) – TRAREGISTERED No:ER57063/17 DEALER No:DA0130583/14



Ukraine – UA. TR.028



UK



Zambia - ZMB / ZICTA / TA / 2019/12/11

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

i08703261

Product Link (PL240 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

Table 22

Model	Cat Part Number
PI 240	505-6727
PL240	526-3054

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.

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

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.

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 23

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

Table 24

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

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

i08703262

Product Link

(PL241 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

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.

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.

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

Radio Transmitter Specifications		
Model Transmitter Frequency Range		Transmitter Power
PI 241	824 MHz - 849 MHz	0.5W typical,
1 LZ41	880 MHZ - 915 MHz	2W max

(Table 25, contd)

Radio Transmitter Specifications		
Model	Model Transmitter Frequency Range	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	

Table 26

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL241	9–32V	1.5A-400mA

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

EHC

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.

i08703264

Product Link

(PL542V2 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL51-Up

Table 27

Model	Cat Part Number
PI 542V2	555-5511
FL342V2	599-3617

MARNING

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.

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.

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 28

Radio Transmitter Specifications			
Model	Transmitter Frequency Range	Transmitter Power	
	698 MHz - 716 MHz		
	704 MHz - 716 MHz		
	703 MHz - 748 MHz		
	815 MHz - 830 MHz	0.5W typical,	
	824 MHz - 849 MHz		
PL542V2	880 MHZ - 915 MHz		
PL542V2	1710 MHz - 1755 MHz	2W max	
	1710 MHz - 1785 MHz		
	1750 MHz - 1785 MHz		
	1850 MHz - 1910 MHz		
	1920 MHz - 1980 MHz		
	2500 MHz - 2570 MHz		

Table 29

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL542V2	9–32V	850mA-225mA

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



Philippines – This device is approved for use in Philippines. Type Acceptance Certification #: ESD-GEC-2006373



Thailand – This telecommunication equipment conforms to NTC technical 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.

i08703265

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

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.

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.

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

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

Table 32

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

Table 33

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

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.

i08703266

Product Link

(PL631V2 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

Table 34

Model	Cat Part Number
PL631V2	544-1881

29

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.

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.

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

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.

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

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

Table 36

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

PL631V2 - If Equipped

Table 37

30

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL631V2	9–32V	2.0A -1.3A

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-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

Argentina – This device is approved for CNG use in Argentina. Certificate ID: EX-2021-19179574- -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.

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 Dossier No.: 057/ARCEP/SE/DR/DAJRC/ GU/2018

Bolivia - This device is approved for use in Bolivia. Certificate No.: ATT-DJ-RA-H-TL LP 113/2018



Botswana – This device is approved for use in Botswana. BTA Registered No.: 3936



Brazil – This device is approved for use in Brazil. 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.: 00000595/ART/DG/DT/SDNA/SNH/CA



Chad – This device is approved for use in Chad. Certificate No.: 31/ARCEP/DG/DRN/SAI/2018

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

The Republic of Congo – 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.: 031/DDTIC/2018

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.: 1711/2019

Gabon – This device is approved for use in Gabon. Certificate No.: 297/ARCEP/2020

Gambia – This device is approved for use in Gambia. Type Approval No.: TA-0001447



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 Equatorial – This device is approved for use in Guinea Equatorial. ORTEL Certificate No.: 82/2021



Indonesia – This device is approved for use in Indonesia. Certification No: 74812/SDPPI/2021. Client ID: 822

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.: 1809/18

Iraq – This device is approved for use in Iraq. Authorization No.: CMC TA 2100648

Ivory Coast – This device is approved for use in Ivory Coast. Certificate No.: 738/DG/DRCT/DCO/SHO



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

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.: 453-C1-2018

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.: SQASI/TA/18/1402. Serial No: E 068135

Mali – This device is approved for use in Mali. Certificate No.: 2018-04-001/AMRTP-P



Mauritania – This device is approved for use in Mauritania. Certificate ID: 0535/ARE/2018

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: IFETEL: RCSPRPL18-1093

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

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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

Nambia – This device is approved for use in Namibia. Type Approval ID: 2021/8742R

New Caledonia – This device is approved for use in New Caledonia. Dossier No.: 21 REC0326; AAI No.: 0297-21

Niger – This device is approved for use in Niger. Certificate No.: 022/ARTP/DG/18

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

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

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



Paraguay – This device is approved for use in Paraguay. CONATEL PY: 2018-07-I-000323

EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL631V2 product description in the EAEU: Telematic Equipment, Cat brand, model PL631V2

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



Serbia – This device is approved for use in Serbia. Certificate No.: 34540-372/18-6

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

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

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.: N034/18

Trinidad and Tobago – This device is approved for use in Trinidad & Tobago. Certificate No.: 2/2/1/2036/61

Tunisia – This device is approved for use in Tunisia. Certificate No.: AHO-0746-19

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



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.01.0026.59110179



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

i08703267

Product Link (PL641V2 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

Table 38

Model	Cat Part Number
PL641V2	555-5509 555-5510

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.

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.

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 39

Table 39	- · · · · · · · · · · · · · · · · · · ·	e
Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	698 MHz - 716 MHz	
	704 MHz - 716 MHz	
	703 MHz - 748 MHz	
	815 MHz - 830 MHz	
	824 MHz - 849 MHz	
	830 MHz - 845 MHz	0.5W typical, 2W max
PL641V2	832 MHz - 862 MHz	
PL641V2	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	

PL641V2 - If Equipped

Table 40

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

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. Certification ID: INACOM/DEGER/2020

Anguilla – This device is approved for use in Anguilla. Certification ID: 19:03902

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



Argentina – This device is approved for use in Argentina. Certification ID: DI-2018-7795-APN-DNAYRT#ENACOM

Armenia – This device is approved for use in Armenia. Certification ID: AST-016/S.A-0037-2021

Aruba – This device is approved for use in Aruba. Certification ID: DTZ/347/2018/IZ



Australia – This device is approved for use in Australia.

Azerbaijan – This device is approved for use in Azerbaijan. Certification ID: 031.33.02.0312.20 and SD -SIV - 1527 (U1)

Bahrain – This device is approved for use in Bahrain. Certification ID: APV-TAC-0119-TRM-12

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

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

Benin – This device is approved for use in Benin. Certification ID: 030/ARCEP/SE/DR/DAJRC/GU/2019

Bhutan – This device is approved for use in Bhutan. Certification ID: 651000040

Bolivia – This device is approved for use in Bolivia. Certification ID: ATT-DJ-RA-H-TL LP 635/2018

Bonaire, Saba, St. Eustatius – This device is approved for use in Bonaire, Saba, St. Eustatius. Certification ID: 2018/031/AT

Botswana – This device is approved for use in Botswana. Certification ID: BOCRA/TA/2019/4334



Brazil – This device is approved for use in Brazil. Certificate ID: 01291-20-06080. 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. Certification ID: VRGTA/ 007/2019

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



Costa Rica – This device is approved for use in Cost Rica. Certification ID: 02166-SUTEL-DGC-2019

Curacao – This device is approved for use in Curacao. Certification ID: 2019/045/TA

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

Equatorial Guinea – This device is approved for use in Equatorial Guinea. Certification ID: 619-018/12

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

Guinea – This device is approved for use in Guinea. Certification ID: H004/BCJ/ARPT/2019

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: 2078/19

Indonesia – This device is approved for use in Indonesia. Certification ID: 63754/SDPPI/2019. Assembled in Malaysia 75781/SDPPI/2021 822 Assembled in Mexico 75836/SDPPI/2021 822

Ivory Coast – This device is approved for use in Ivory Coast. Certification ID: 19-00092

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

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

Madagascar – This device is approved for use in Madagascar. Certification ID: 19/007-CEL/ARTEC/DG/DNCSR/SNA/RT

Malaysia – This device is approved for use in Malaysia. Approval ID: RGFN/01A/0319/S(19-0647)

Maldives – This device is approved for use in Maldives. Certification ID: CAM-TAC2019-17

Mauritius – This device is approved for use in Mauritius. Certification ID: ICTA/335/DE/MAY-19/TN7649



Mexico – This device is approved for use in Mexico. Certification ID: RTIPRPL18-2083 and

ANC2101C00000037 ANC2101C00000037-0001

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

Nigeria – This device is approved for use in Nigeria. Certification ID: NCC/TSNI/WN/TA/CERT/2786/2019

Moldovia – This device is approved for use in Moldovia. Certification ID: MD OC TIP 024 A6428-19

Nepal – This device is approved for use in Nepal. Certification ID: R-GSM-D-PP-60

Paraguay – This device is approved for use in Paraguay. Certification ID: 2019-03-I-000146

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



Philippines – This device is approved for use in Philippines. Certification ID: ESD-CPE-1903473

Republic of Congo – This device is approved for use in Republic of Congo. Certification ID: 211/ARPCE-DG/DAJI/DRSCE/18

EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL641V2 product description in the EAEU: Telematic equipment Cat® brand, model PL641V2 **Rwanda** – This device is approved for use in Rwanda. Type Approval ID: 103635540

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



Serbia – This device is approved for use in Serbia. Certification ID: 34540-888/28-8

Seychelles – This device is approved for use in Seychelles. Type Approval ID: DICT/COM/66



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. Certification ID: R-R-CTU-PL641V2 and 202117210000415753

South Sudan – This device is approved for use in South Sudan. Certification ID: RSS/NCA/TA/2018/12/182

St. Kitts and Nevis – This device is approved for use in St. Kitts and Nevis. Certification ID: NTRCSKN-680-12-18

Saint Lucia – This device is approved for use in Saint Lucia. Certification ID: LCT/FB19.137A

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



Thailand – This telecommunication equipment is in compliance with NBTC requirements.

Togo – This device is approved for use in Togo. Certificate ID: 020119

Trinidad and Tobago – This device is approved for use in Trinidad and Tobago. Certification ID: 2/2/1/1215/6.54

Tunisia – This device is approved for use in Tunisia. Certification ID: AHO-0050-19



Ukraine – This device is approved for use in Ukraine. Certification ID: UA2. TR.008.000007-19



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



Vietnam – This device is approved for use in Vietnam. Certification ID: C0497180621AA04A3

ĕ ZICTA

Zambia – This device is approved for use in Zambia. Type Approval ID: ZMB / ZICTA / TA / 2019 / 2 / 31

i08703268

Product Link

(PL641 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up **S/N:** PL51–Up **S/N:** PL61–Up

Table 41

Model	Cat Part Number
PL641	440-2104
	440-2105

MARNING

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.

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.

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SEBU8832-26

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 42

Radio Transmitter Specifications			
Model	Transmitter Frequency Range	Transmitter Power	
	824 MHz - 849 MHz	0.5W typical, 2W max	
	880 MHZ - 915 MHz		
PL641	1710 MHz - 1755 MHz		
	1850 MHz - 1910 MHz	277 max	
	1920 MHz - 1980 MHz		

Table 43

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

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

EHC

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

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

i08703269

Product Link

(PL671 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

Table 44

Model	Cat Part Number
PI 671	483-3663
PL6/1	520-4349

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.

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.

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 45

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

Table 46

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 47

Machine to Machine Transmitter			
Model	Frequency	Power	Range
PL671	5.795GHz - 5.835GHz ⁽¹⁾	103mW Average ⁽¹⁾ 308mW Max ⁽¹⁾	300m ⁽²⁾
. 2011	5.850GHz - 5.925GHz ⁽¹⁾		

⁽¹⁾ May be restricted depending on country regulations

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 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

⁽²⁾ Line of Sight

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, Kygyzstan) – The PL671 product description in the EAEU:
Telematic radio equipment Cat® brand, model PL671

i08703270

Product Link

(PLE601 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

Table 48

Model	Cat Part Number
	417 - 4722
PLE601	459-0786
	459-0787
	459-0788

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.

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.

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

Specifications

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.

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 49

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

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 PLE601 product description in the EAEU: Electronic programmable control unit Cat brand, model PLE601.

i08703271

Product Link

(PLE602 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

Table 50

Model	Cat Part Number
PLE602	N/A

A 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.

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.

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

Specifications

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.

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

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw
PLE602	9–32V	630mA - 330mA

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

EAC

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.

i08703272

Product Link

(PLE602P - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

Table 52

Model	Cat Part Number
PLE602P	N/A

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.

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.

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

Specifications

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.

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 53

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw
PLE602P	9–32V	653mA - 330mA

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.

i08703273

Product Link

(PLE702 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL71-Up

Table 54

Model	Cat Part Number	
	494-6472	
PLE702	494-6473	
	494-6474	

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.

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SEBU8832-26

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.

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

Specifications

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.

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 55

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

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

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

Delivery Date: _____

Note: For product identification plate locations, see the section "Product Identification Information" in the Operation and Maintenance Manual.

Product Information						
Model:						
Product Ide	ntification Number:					
Engine Seri	al Number:					
Transmissio	on Serial Number:					
Generator S	Serial Number:					
Attachment	Serial Numbers:					
Attachment	Information:					
Customer E	quipment Number:					
Dealer Equ	pment Number:					
Dealer	Information					
Name:	Branch:					
Address:						
	Dealer Contact	Phone Number	<u>Hours</u>			
Sales: -						
Parts: -						
Service: -						

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