

# 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 (Product Link) PL2 1-UP (Product Link) PL1 1-UP (Product Link) PL0 1-UP (Product Link) PL5 1-UP (Product Link) PL7 1-UP (Product Link)

**Language: Original Instructions** 





# **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.

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Safety Section

# **Safety Section**

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# **Safety Signs and Labels**

**SMCS Code:** 7606

# **WARNING**

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

# **WARNING**

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

# **A WARNING**

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

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

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

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

# **Safety Messages**

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

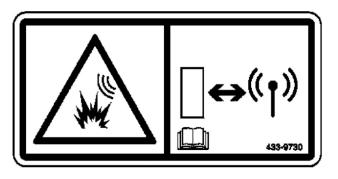


Illustration 1 Film

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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.

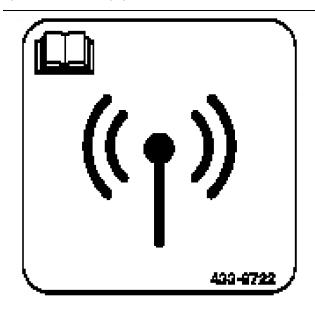


Illustration 2 g03356733

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

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# **Product Link**

(PL641V2 - If Equipped)

SMCS Code: 7490: 7606

Table 1

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

## **⚠** WARNING

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

# WARNING

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

#### **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

#### **sDoC**

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

# **Specifications**

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

Table 2

Model	Voltage Range	<b>Current Draw</b>
PL641V2	9 - 32V	750mA - 225mA

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Table 3

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

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### **Canada Notice to Users**

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

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

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

#### Antennas for use:

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

#### **FCC Notice**

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

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

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

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

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

#### **Certification Markings**

Angola - This device is approved for use in Angola. Declaration of Conformity: INACOM/DEGER/2022. Equipment type Model No: 484

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

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

Argentina – This device is approved for R H-22626 use in Argentina. Certificate ID: EX-2021-107597857- -APN-REYS#ENACOM. CT:24771.181115115925.50

**Armenia** – This device is approved for use in Armenia. Certificate No.: N RA AST-016/S.A-0510-2022, Series RA N 0000480

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



Australia - This device is approved for use in Australia.

**Azerbaijan** – This device is approved for use in Azerbaijan. Certificate No.: SO-RF/SIV-2712(U). Blank No.: AS 019547

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

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



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

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

**Benin** – This device is approved for use in Benin. Approval Dossier No.: 030/ARCEP/SE/DR/DAJRC/ GU/2019

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

**Bolivia** – This device is approved for use in Bolivia. Certificate No.: ATT-DJ-RA-H-TL LP 635/2018

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

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



Brazil - This device is approved for use in Brazil. Certificate No.: 01291-20-06080. The radio is designed for use in industrial and commercial installations by trained and qualified professionals, not for domestic use.

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

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

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

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

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

Chad – This device is approved for use in Chad. Certificate No.: 151/ARCEP/DG/DRN/SAI/2018

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

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

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



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

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

**Diibouti** – This device is approved for use in Diibouti. Certificate No.: 003/DDTIC/2019

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

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

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

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

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

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

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

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

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

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

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

Guyana - This device is approved for use in Guyana.

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

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



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



Indonesia – This device is approved for use in Indonesia. Certification No: 75781/SDPPI/2021 (Assembled in

Malaysia), 75836/SDPPI/2021 (Assembled in Mexico). Client ID: 822

Iraq – This device is approved for use in Iraq. Authorization No.: CMC TA 2208100

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

Ivory Coast (Cote D'Ivoire) – This device is approved for use in Ivory Coast. Certification ID: 19-00092

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



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

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

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

**Laos** – This device is approved for use in Laos. Certificate No.: 0015/DRF

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

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

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

**Libya** – This device is approved for use in Libya. Certificate No.: 602-C1-2018

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

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



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

079375

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

**Mali** – This device is approved for use in Mali. Certificate No.: 2018-12-001/AMRTP-P

**Mauritania** – This device is approved for use in Mauritania. Certificate ID: 0618/ARE/2019

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



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

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

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

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

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

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

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

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

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

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

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



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

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



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



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



Russia - This device is approved for use in Russia.

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

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



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

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

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



Singapore - This device is approved for use in Singapore.



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



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

202117210000415753

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

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

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

**St. Vincent & the Grenadines** – This device is approved for use in St. Vincent & the Grenadines. Certificate No.: SVG\_012920190910

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

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



Taiwan - This device is approved for use in Taiwan.

Tajikistan - This device is approved for use in Tajikistan. Certificate No.: 024747

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



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

Togo - This device is approved for use in Togo. Certificate No.: N020/19

**Trinidad and Tobago** – This device is approved for use in Trinidad & Tobago. Certificate No.: 2/2/1/1215/ 6.54

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

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

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

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



Ukraine - This device is approved for use in Ukraine.

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



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



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

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



Uzbekistan - This device is approved for use in Uzbekistan. Certificate No.: UZ. SMT.01.319.81985379 (Malaysia); UZ. SMT.01.0026.88702281 (Mexico)

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

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



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

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

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#### **Product Link**

(PL671 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL61-Up

Table 4

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

# **⋒** WARNING

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# **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.

# **A WARNING**

#### **Explosion Hazard!**

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

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

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

#### **sDoC**

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

# **Specifications**

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

Table 5

Model	Voltage Range	<b>Current Draw</b>
PL671	9VDC - 32VDC	1000mA - 300mA

Table 6

WiFi Transmitter		
Model	Frequency	Power
DI 074	2.402GHz - 2.480GHz	41mW Average 85mW Max
PL671	5.170GHz - 5.835GHz <sup>(1)</sup>	85mW Average <sup>(1)</sup> 308mW Max <sup>(1)</sup>

<sup>(1)</sup> May be restricted depending on country regulations

Table 7

Machine to Machine Transmitter			
Model	Frequency	Power	Range
PL671	5.795GHz - 5.835GHz <sup>(1)</sup>	103mW Average <sup>(1)</sup>	300m <sup>(2)</sup>
0	5.850GHz - 5.925GHz <sup>(1)</sup>	308mW Max <sup>(1)</sup>	

<sup>(1)</sup> May be restricted depending on country regulations

(continued)

(Table 7, contd)
(2) Line of Sight

# **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### Brazil

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

#### **Canada Notice to Users**

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

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

#### Mexico

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

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

#### **FCC Notice**

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

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

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

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

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

# **Certification Markings**

EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) – The PL671 product description in the EAEU:
Telematic radio equipment Cat® brand, model PL671



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

i09864399

# **Product Link**

(PL243 - If Equipped)

SMCS Code: 7490; 7606

Table 8

Model	Cat Part Number
PL243	550-3269 Electronic Control Gp
	(PRODUCT LINK 243 CELLULAR)

#### **WARNING**

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

#### **A** 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.

#### **A** WARNING

#### **Explosion Hazard!**

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

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

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

#### **sDoC**

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

# **Specifications**

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

Table 9

Model	Voltage Range	<b>Current Draw</b>
PL243	9V - 32V	225mA - 120mA

Table 10

Transmitter Specifications		
Model	Frequency Range	Power
PL243	698 MHz - 716 MHz 704 MHz - 716 MHz 703 MHz - 748 MHz 815 MHz - 830 MHz 824 MHz - 849 MHz 830 MHz - 845 MHz 832 MHz - 862 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1710 MHz - 1785 MHz 1750 MHz - 1785 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz 2500 MHz - 2570 MHz	0.5W (typical), 2W (max)

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### **Canada Notice to Users**

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

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

#### **FCC Notice**

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

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

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

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

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

#### Certification Markings



Brazil - This device is approved for use in Brazil. Approval No. 04424-19-07855



PL243.

EAEU (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) - The PL243 product description in the EAEU: Telematic Radio equipment Cat brand, model



Indonesia – This device is approved for use in Indonesia. Certification ID: 72986/ SDPPI/2021



Mexico - This device is approved for use in Mexico. Certificate No: IFT CACAPL23-10743



Thailand – This telecommunication equipment is in compliance with NBTC requirements. Certificate ID: B38437-19

i09866291

# **Product Link**

(PL631V2 - If Equipped)

SMCS Code: 7490; 7606

Table 11

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

#### **A** WARNING

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

#### **⋒** WARNING

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

#### **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

#### **sDoC**

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**

# UK

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

Model	Voltage Range	<b>Current Draw</b>
PL631V2	9 - 32V	950mA - 260mA

Table 13

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

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SEBU8832-28

Table 14

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

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### **Canada Notice to Users**

This device complies with Industry 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**

**Angola** – This device is approved for use in Angola. Declaration of Conformity: INACOM/DEGER/2022

Argentina – This device is approved for use in Argentina. Certificate ID: EX-2021-19179574- -APN-REYS#ENACOM.

CT:24771.180216125609.37

PL631V2 - If Equipped

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



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Australia – This device is approved for use in Australia.

**Azerbaijan** – This device is approved for use in Azerbaijan. Certificate No.: SO – RF/SiV - 3164. Blank No.: AS 020281

**Bahamas** – This device is approved for use in Bahamas. Certificate No.: URCA\_TA/2018\_041



Belarus – This device is approved for use in Belarus.

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

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

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

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



Brazil – This device is approved for use in Brazil. Certificate.: 04067-14-07855

**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.: 006/ARCEP/DG/DRN/SAGPN/2023

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

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

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

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

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

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

**Ethiopia** – This device is approved for use in Ethiopia. ECA/TA/No.: 1761/2021

**Gabon** – This device is approved for use in Gabon. Certificate No.: 262/ARCEP/2022

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

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

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

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

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

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

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

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



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

**Iraq** – This device is approved for use in Iraq. Authorization No.: CMC TA 2206952

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

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



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

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

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

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

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

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

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

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



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

156060

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

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

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

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

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

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

**New Caledonia** – This device is approved for use in New Caledonia. Approval ID: ANFR/NC/AAI/ 10603665. RIDET: 2085588

**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

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

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

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

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

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



Russia – This device is approved for use in Russia.

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

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



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

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



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



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



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

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

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

**St. Vincent & the Grenadines** – This device is approved for use in St. Vincent & the Grenadines. Certificate No.: SVG\_030220181430

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

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

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

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

**Trinidad and Tobago** – This device is approved for use in Trinidad & Tobago. Certificate No.: 2/2/1/2036/6.1

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

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

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

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



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

Type Examination: 1268.7-CET



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



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

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



Uzbekistan – This device is approved for use in Uzbekistan. Certificate No.: UZ. SMT.01.0026.88702195

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

**Vietnam** – This device is approved for use in Vietnam. Certificate No.: 0172/2018/CB-TT1

ZICTA

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

i09866301

# **Product Link**

(PL542V2 - If Equipped)

**SMCS Code:** 7490; 7606

**S/N:** PL51-Up

Table 15

Model	Cat Part Number	
PL542V2	555-5511 Communication Radio Gp	
PL542V2 (4G)	599-3617 Communication Radio Gp	

# **WARNING**

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

# **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.

**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 16

Model	Voltage Range	Current Draw
PL542V2	9 - 32V	850mA - 225mA

Table 17

Transmitter Specifications		
Model	Frequency Range	Power
PL542V2	698 MHz - 716 MHz 704 MHz - 716 MHz 703 MHz - 748 MHz 815 MHz - 830 MHz 824 MHz - 849 MHz 830 MHz - 845 MHz 832 MHz - 862 MHz 880 MHZ - 915 MHz 1710 MHz - 1755 MHz 1710 MHz - 1785 MHz 1750 MHz - 1785 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz 2500 MHz - 2570 MHz	0.5W (typical) 2W (max)
PL542V2 (WiFi)	2401 MHz - 2484 MHz	17.5 dBm (max)
PL542V2 (BLE)	2400 MHz - 2400 MHz	7.5 dBm (max)

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notice**

#### **Canada Notice to Users**

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

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

#### **FCC Notice**

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

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

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

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

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

#### **Certification Markings**



Indonesia – This device is approved for use in Indonesia. Certification ID: 69921/SDPPI/2020



Mexico – This device is approved for use in Mexico. Certificate # IFT: CACAPL23-10748



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

**Thailand** – This telecommunication equipment is in compliance with NBTC requirement

ZICTA

Zambia – This device is approved for use in Zambia. Type Approval Ref. ID: ZMB/ZICTA/TA/2020/10/3

EHC

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.

i09866309

# **Product Link**

(PLG641V2 - If Equipped)

SMCS Code: 7490; 7606

Table 18

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

## **MARNING**

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

#### **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

#### **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

#### **sDoC**

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

# **Specifications**

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

Table 19

Transmitter Specifications		
Model	Frequency Range	Power
PLG641V2 (NA)	704 - 716 MHz 824 - 849 MHz 880 - 915 MHz 1710 - 1755 MHz 1710 - 1785 MHz 1850 - 1910 MHz	0.5W typical 2W max
PLG641V2 (EU)	832 - 862 MHz 880 - 915 MHz 1710 - 1785 MHz 1920 - 1980 MHz 2500 - 2570 MHz	ZW IIIdX

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### **Canada Notice to Users**

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

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

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

#### **Antennas for Use:**

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

#### **FCC Notice**

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

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

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

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

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

# **Certification Markings**

#### North America (NA)

Argentina – This device is approved for use in Argentina. Certificate ID: EX-2020-35132502- -APN-REYS#ENACOM. CT:24771.200529172806.92



Australia – This device is approved for use in Australia.

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

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

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SEBU8832-28



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

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



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

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

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



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

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



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

# Europe (EU)



Australia – This device is approved for use in Australia.

**Bahrain** – This device is approved for use in Bahrain. Approval No.: APV-TAC-0520-TRM-179

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

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



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

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

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

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

Congo, The Republic of — This device is approved for use in The Republic of Congo. Certificate No.: 100/ARPCE-DG/DAJI/DRSCE/20

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

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

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



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





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

2021; PLG ID: 822

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

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

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

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

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

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

**Namibia** – This device is approved for use in Namibia. Type Approval ID: 2020/8119

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

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



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

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



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

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

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



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

#### 05May2022



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

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

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



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

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

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

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

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



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

i09866339

# Product Link (PLE602P - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL61-Up

Table 20

Model	Cat Part Number
PLE602P	

#### **MARNING**

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

#### **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

#### **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.

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

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

#### sDoC

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

PLE602P - If Equipped

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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 21

Model	Voltage Range	<b>Current Draw</b>
PLE602P	9 - 32V	653mA - 330mA

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### Canada Notice to Users

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

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

#### **FCC Notice**

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

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

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

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

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

#### **Certification Markings**

EHC

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.

i09866341

# **Product Link**

(PLE702 - If Equipped)

**SMCS Code:** 7490; 7606

**S/N:** PL71-Up

Table 22

Model	Cat Part Number	
DI E700	494 - 6472 Communication Electronic Con-	
PLE702	trol Module	
PLE702	494 - 6473 Communication Electronic Con-	
PLE/UZ	trol Module	
PLF702	494-6474 Communication Electronic Con-	
PLE/UZ	trol Module	

#### **WARNING**

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

#### **A** WARNING

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

# **WARNING**

#### **Explosion Hazard!**

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

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

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

#### sDoC

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**

# UK CA

# 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 23

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

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notice**

#### **Canada Notice to Users**

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

This device may not cause interference

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

#### **FCC Notice**

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

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

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

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

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

#### Certification Markings



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

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

i09866343

# **Product Link**

(PL042 - If Equipped)

SMCS Code: 7490; 7606

**S/N**: PL01–Up **S/N**: PL71–Up

Table 24

Model	Cat Part Number
PL042	514-7505 Electronic Control Module

#### **WARNING**

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

#### **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

#### **WARNING**

#### **Explosion Hazard!**

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

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

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

#### sDoC

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Specifications**

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

Table 25

Model	Voltage Range	<b>Current Draw</b>
PL042	9 - 32V	250mA - 200mA

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

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notice**

#### **Canada Notice to Users**

Operation is subject to the following two conditions:

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

#### **FCC Notice**

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

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

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

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

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

#### **Certification Markings**

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



Singapore – Complies with IDA Standards DB105771

**Thailand** – This telecommunication equipment conforms to NTC technical requirement

Indonesia – 51763/SDPPI/2017



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

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



Japan - R 003 - 170036. T D170023003

i09866347

# **Product Link**

(PL161 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL11-Up

Table 27

Model	Cat Part Number
PL161	503 - 2958 Electronic Control Gp

#### **WARNING**

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

#### **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

# **WARNING**

#### **Explosion Hazard!**

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

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

#### **WARNING**

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

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

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

Dispose of used batteries according to federal and local laws.

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

#### **sDoC**

(Simplified Declaration of Conformity)

#### **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

#### **Specifications**

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

Table 28

Model	Voltage Range	<b>Current Draw</b>
PL161	3.6V (Internal Battery)	32mA

Table 29

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

#### **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### **Canada Notice to Users**

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

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

#### **FCC Notice**

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

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

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

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

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

# Certification Markings



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



Australia - This device is approved for use in Australia.



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



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



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



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



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



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



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



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

**SMA - PL161** 



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



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



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



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

ARE/2018 Date of Agreement: 09/01/2018



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



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



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

#### Commission



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



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



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



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



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



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



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



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



Thailand – This telecommunication equipment conforms to NTC technical requirement



Taiwan – This device is approved for use in Taiwan



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

No: DA0130583/14



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



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



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

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

i09866351

# **Product Link**

(PL143 - If Equipped)

SMCS Code: 7490; 7606

Table 30

Model	Cat Part Number
PL143	604 - 4445 Electronic Control Module

37

## **MARNING**

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

## **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **WARNING**

#### **Explosion Hazard!**

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

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

## **WARNING**

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

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

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

Dispose of used batteries according to federal and local laws.

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

## **sDoC**

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

## **Specifications**

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

Table 31

Model	Voltage Range	<b>Current Draw</b>
PL143	3.6V (internal battery)	500 mA

Table 32

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

## **Disclaimer Notice**

#### NOTICE

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

## **Certification Notice**

#### **Canada Notice to Users**

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

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

#### **FCC Notice**

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

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

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

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

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

# **Certification Markings**



Australia – This device is approved for use in Australia.



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



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



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



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



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



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



Vietnam – This device is approved for use in Vietnam.



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

i09866353

## **Product Link**

(PLE602 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL61-Up

Table 33

Model	Cat Part Number
PLE602	517-4512 Electronic Control Gp

## **A** WARNING

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

## **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

## **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 34

Model	Voltage Range	<b>Current Draw</b>
PLE602	9 - 32V	630mA - 330mA

## **Disclaimer Notice**

#### **NOTICE**

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

#### **Certification Notice**

## **Canada Notice to Users**

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

This device may not cause interference

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

#### **FCC Notice**

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

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

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

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

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

## **Certification Markings**



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

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

i09866357

## **Product Link**

(PL083 - If Equipped)

**SMCS Code:** 7490; 7606

Table 35

Model	Cat Part Number	
PI 083	545-3987 Communication Electronic	
FL003	Control Module	

## **WARNING**

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

## **WARNING**

## **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **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.

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

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

## **sDoC**

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### **Great Britain**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

# **Specifications**

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

Table 36

Model	Voltage Range	<b>Current Draw</b>
PL083	9V - 16V	400mA - 750mA

Table 37

Transmitter Specifications		
Model	Frequency Range	Power
		+19.7 dBm
PL083	76.01 GHz - 76.99 GHz	(average)
PLU63	76.5 GHz (nominal)	+25 dBm (peak; e.i.
		r.p)

## **Disclaimer Notice**

#### NOTICE

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

#### Certification Notice

#### **Canada Notice to Users**

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

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

## **FCC Notice**

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

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

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

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

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

## **Certification Markings**



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

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



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

i09866359

## **Product Link**

(PLE601 - If Equipped)

SMCS Code: 7490: 7606

**S/N:** PL61-Up

Table 38

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

## **WARNING**

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

## **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **WARNING**

#### **Explosion Hazard!**

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

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

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

# **Specifications**

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

Table 39

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

## **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notice**

#### Canada Notice to Users

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

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

#### **FCC Notice**

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

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

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

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

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

## **Certification Markings**



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

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

i09870654

## **Product Link**

(PL131 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL11–Up

Table 40

Model	Cat Part Number	
PL131	464 - 7818 Communication Radio Gp	

## **WARNING**

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

## **▲** WARNING

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **WARNING**

#### **Explosion Hazard!**

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

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

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

## **Specifications**

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

Table 41

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

Table 42

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

## **Disclaimer Notice**

#### NOTICE

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

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

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

## **Certification Notices**

## **Canada Notice to Users**

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

Operation is subject to the following two conditions:

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

## **FCC Notice**

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

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

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

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

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

i09870655

# **Product Link**

(PL141 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL11-Up

Table 43

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

## **WARNING**

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

## **⚠** WARNING

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **WARNING**

#### **Explosion Hazard!**

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

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

## **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.

**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 44

Model	Voltage Range	<b>Current Draw</b>
PL141	3.6V (Internal Battery)	2A

Table 45

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

## **Disclaimer Notice**

#### NOTICE

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

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

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

## **Certification Notices**

#### Canada Notice to Users

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

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

## **FCC Notice**

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

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

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

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

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

## **Certification Markings**

EHC

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

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

i09870658

# **Product Link**

(PL240 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL21-Up

Table 46

Model	Cat Part Number	
DI 040	505-6727 Communication Radio Gp 526-3054 Communication Installation	
PL240	Gp	

## **WARNING**

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

## **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **WARNING**

#### **Explosion Hazard!**

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

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

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

#### sDoC

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

## **Specifications**

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

Table 47

Model	Voltage Range	<b>Current Draw</b>
PL240	9 - 32V	250mA - 200mA

Table 48

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

## **Disclaimer Notice**

#### NOTICE

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

## **Certification Notices**

#### **Canada Notice to Users**

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

· This device may not cause interference

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

## **FCC Notice**

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

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

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

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

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

#### Certification Markings

Costa Rica – FCC mark

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

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

**Singapore** – Complies with IMDA Standards. Dealer License: DB105771

**Thailand** – This telecommunication equipment conforms to NTC technical requirement

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



Australia - E401



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

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



Hong Kong - US0021800013

Indonesia – 49587/SDPPI/20173130



Japan – R 003–160123T 0160071003



New Zealand - R-NZ E401



Philippines – NTCType ApprovedNo. ESD-CPE-1703322



Ukraine - 028

i09870659

# **Product Link**

(PL241 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL21-Up

Table 49

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

## **MARNING**

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

## **WARNING**

**Explosion Hazard!** 

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

Internal battery is not a serviceable component.

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

## **A WARNING**

**Explosion Hazard!** 

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

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

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

#### sDoC

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

## **Specifications**

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

Table 50

Model	Voltage Range	<b>Current Draw</b>
PL241	9 - 32V	250mA - 200mA

Table 51

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

## **Disclaimer Notice**

#### NOTICE

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

## **Certification 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**

EAC

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.

i09870661

## **Product Link**

(PL444 - If Equipped)

SMCS Code: 7490; 7606

Table 52

Model	Cat Part Number
PL444 (NA)	604 - 9580 Electronic Control Gp
PL444 (EU)	604 - 9581 Electronic Control Gp

## **WARNING**

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

# **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

## **sDoC**

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

#### Great Britain



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

## **Specifications**

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

Table 53

Model	Operating Voltage	<b>Current Draw</b>
PL444 (NA) PL444 (EU)	9 - 32V	525mA - 150mA

Table 54

52

Model	Frequency Range	Power
	699 - 716 MHz	
	777 - 787 MHz	
PL444 (NA)	824 - 849 MHz	0.2W (typical)
1 2444 (14/4)	1710 - 1755 MHz	1.78W (maximum)
	1850 - 1910 MHz	
	2500 - 2570 MHz	
	703 - 748 MHz	
	832 - 862 MHz	
PL444 (EU)	880 - 915 MHz	0.2W (typical)
	1710 - 1785 MHz	1.78W (maximum)
	1920 - 1980 MHz	
	2500 - 2570 MHz	

## **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

## **Canada Notice to Users**

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

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

#### **FCC Notice**

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

This device may not cause harmful interference.

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

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

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

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

## **Certification Markings**

## North America (NA)



Argentina – This device is approved for use in Argentina. Certification # DI-2022-5585-APN-DNAYRT#ENACOM

**Bahamas** – This device is approved for use in Bahamas. Certificate # URCA\_TA\_2021\_143

**Barbados** – This device is approved for use in Barbados. MED #: 2944

**Belize** – This device is approved for use in Belize. Certificate # PUC/CI/1262021/BZE

**Bolivia** – This device is approved for use in Bolivia. Certificate # ATT-DJ-RA-H-TL LP 42/2022

**Chile** – This device is approved for use in Chile. Ref: 5604

**Colombia** – This device is approved for use in Colombia. CRC ID: 2021529545



Costa Rica – This device is approved for use in Costa Rica. CP-PL444(NA)-01; 10030-2022

**Curacao** – This device is approved for use in Curacao. Certificate # 2021/177/TA

**Ecuador** – This device is approved for use in Ecuador. Certificate # ARCOTEL-2021-031337

**Guyana** – This device is approved for use in Guyana. Certificate # 334/317/DC/2021

**Haiti** – This device is approved for use in Haiti. Certificate # CNT/DG-965-22

**Honduras** – This device is approved for use in Honduras. Certificate # 20211213HM53

**Jamaica** – This device is approved for use in Jamaica.



Mexico – This device is approved for use in Mexico. Certification # CACAPL22-23257

**Nicaragua** – This device is approved for use in Nicaragua. Certificate # NCG-CE-22-045

**Panama** – This device is approved for use in Panama. DTEL #: 0752



Paraguay – This device is approved for use in Paraguay. Certificate # 2869/2021



Peru – This device is approved for use in Peru. Certificate # 2101645

**Suriname** – This device is approved for use in Suriname. Certificate # T0181/21

**Trinidad & Tobago** – This device is approved for use in Trinidad & Tobago. Certificate # 2/2/1/2941/6

**Uruguay** – This device is approved for use in Uruguay. Certificate # VU20220203-000909

**Venezuela** – This device is approved for use in Venezuela. Certificate # DG/GGST/DHC/N: 0537

## Europe (EU)

**Angola** – This device is approved for use in Angola. NACOM #: 1318



Australia – This device is approved for use in Australia.

**Bahrain** – This device is approved for use in Bahrain. Certificate # APV-TAC-1121-TRM-604



Belarus – This device is approved for use in Belarus.

**Burkina Faso** – This device is approved for use in Burkina Faso. Certificate # 2022-000003/ARCEP/SG/DGSN

**Cameroon** – This device is approved for use in Cameroon. Certificate # 00001115/ART/DG/DT/SDNSEA/SNH

Chad – This device is approved for use in Chad. Certificate # 124/ARCEP/DG/DRN/SAGPN/2021



Congo, The Democratic Republic of – This device is approved for use in The Democratic Republic of Congo.

Certificate # HER - 0111/Juin/2022

**The Republic Of Congo** – This device is approved for use in The Republic Of Congo. Certificate # 244/ ARPCE-DG/DAJI/DRSCE/21

Cote D'Ivoire – This device is approved for use in Cote D'Ivoire. Certificate # 3803/DG/DRCT/DCO/SHO/KKC 21 01680



Djibouti – This device is approved for use in Djibouti. Certificate # 171/DDTIC/ 2021

Ethiopia – This device is approved for use in Ethiopia. Certificate # ECA/TA/NO. 1692/2021

**Fiji** – This device is approved for use in Fiji. Certificate # FJ21/31WL/12412

**Gabon** – This device is approved for use in Gabon. Certificate # 1184/ARCEP/2021



Ghana – This device is approved for use in Ghana. Certificate # 7E5-7M-XD9-RDR

India – This device is approved for use in India. Registration #: ETA-SD-20220201304



Indonesia – This device is approved for use in Indonesia. Certificate # 81943/ SDPPI/2022 822

Iraq – This device is approved for use in Iraq. CMC TA 2105080



Israel - This device is approved for use in Israel. MOC cert #: 11-11683 MOE #: 48732972



Kazakhstan - This device is approved for use in Kazakhstan. Certification # EA9C KZ 7100841.13.12.01280

**Kuwait** – This device is approved for use in Kuwait. Ref: 5764

**Lebanon** – This device is approved for use in Lebanon. Certificate # 4012/E&M/2022; 141177090

**Libya** – This device is approved for use in Libya. Certificate # 1201-TA21

**Madagascar** – This device is approved for use in Madagascar. Certificate # 21/352-DCP/ARTEC/DG/ DNCSR/SNAESR/test



Malaysia - This device is approved for use in Malaysia. Certification # 153569

**Mali** – This device is approved for use in Mali. Certificate # 2022-05-088/AMRTP-P

Mongolia - This device is approved for use in Mongolia. Certificate # A21000577

Morocco - This device is approved for use in Morocco. Certificate # ANRT/DTEC/DAA/SAG/OR/



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

Niger – This device is approved for use in Niger. Certificate # HOMO-0105-ARCEP/DG/DR/DHA/2021



Nigeria – This device is approved for use in Nigeria. Certificate # NCC/TSNI/ WN/TA/CERT/4838/2021



Pakistan - This device is approved for use in Pakistan. TAC #: 9.227/2022

Palestine (West Bank) – This device is approved for use in Palestine (West Bank). Certificate # MTIT/ 2021/232



Papa New Guinea - This device is approved for use in Papa New Guinea. Certification # PNG21/1935 Ref # N077-

2022



Philippines - This device is approved for use in Philippines. Certificate # ESD-GEC-2207232

**Qatar** – This device is approved for use in Qatar. Certificate # CRA/SM/2021/S-0008794

Rwanda – This device is approved for use in Rwanda. Certificate # RURA/ICT/AUT/220206535



Senegal – This device is approved for use in Senegal. Certificate # 072134/AG/

Sierra Leone – This device is approved for use in Sierra Leone. Certificate # 2021-002-0127



Singapore - This device is approved for use in Singapore. Certificate # IMDA/ CMALAO/EQR-003/01-02. Complies with IMDA Standards DB107261.



South Africa – This device is approved for use in South Africa. Certificate # EA-2022/0705; Classification 3

Sudan (North) - This device is approved for use in Sudan (North).

**Tanzania** – This device is approved for use in Tanzania. Certificate # TCRA/TAC/1912/2022



Thailand - This device is approved for use in Thailand. Certificate #: B38090-22; Letter #: STC 2407/7839

Tunisia - This device is approved for use in Tunisia. Certificate # AHO-2598-21



**UAE (United Arab Emirates) - This** device is approved for use in UAE. Certificate # ER04693/22

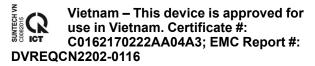
**Uganda** – This device is approved for use in Uganda. Certificate # TI0227012022



Ukraine - This device is approved for use in Ukraine. Certificate # UA.032. CT.0520-21



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



**Yemen** – This device is approved for use in Yemen. Certificate # MTIT/TA220111/SRD

ZICTA

Zambia – This device is approved for use in Zambia. Certificate # ZMB/ZICTA/TA/2022/1/53

i09870663

## **Product Link**

(PL542 - If Equipped)

SMCS Code: 7490; 7606

**S/N:** PL51-Up

Table 55

Model	Cat Part Number
PL542	

## **MARNING**

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

## **WARNING**

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

## **sDoC**

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

## **Specifications**

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

Table 56

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

Table 57

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

## **Disclaimer Notice**

#### NOTICE

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

## **Certification Notice**

#### **Canada Notice to Users**

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

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

#### **FCC Notice**

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

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

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

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

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

## **Certification Markings**

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



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

#### 05/18

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

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

**Thailand** – This telecommunication equipment conforms to NTC technical requirement



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



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

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

i09870664

## **Product Link**

(PL631 - If Equipped)

SMCS Code: 7490; 7606

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

Table 58

Model	Cat Part Number	
DI 624	442-7199 Electronic Control Module	
PL631	(PRODUCT LINK ELITE 631 SATELLITE)	

## **MARNING**

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

## **A** WARNING

#### **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **⚠** WARNING

#### **Explosion Hazard!**

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

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

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

## **sDoC**

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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

## **Specifications**

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

Table 59

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

#### Table 60

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

Table 61

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

## **Disclaimer Notice**

#### NOTICE

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

## **Certification Notices**

## **Canada Notice to Users**

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

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

Antennas for use:

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

#### **FCC Notice**

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

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

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

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

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

## **Certification Markings**



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

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

i09870665

## **Product Link**

(PL641 - If Equipped)

SMCS Code: 7490; 7606

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

Table 62

Model	Cat Part Number
PL641	440-2104 Electronic Control Gp (PL641I CELLULAR)
PL641	440 - 2105 Electronic Control Gp (PROD- UCT LINK ELITE 641 CELLULAR)

## **A WARNING**

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

## **WARNING**

## **Explosion Hazard!**

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

Internal battery is not a serviceable component.

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

## **WARNING**

#### **Explosion Hazard!**

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

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

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

## **sDoC**

(Simplified Declaration of Conformity)

## **European Union**



Caterpillar Inc. 100 NE Adams Peoria, IL 61629 USA

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

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

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 63

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

Table 64

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

## **Disclaimer Notice**

#### NOTICE

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

#### **Certification Notices**

#### **Canada Notice to Users**

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

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

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

#### Antennas for use:

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

#### **FCC Notice**

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

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

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

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

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

## **Certification Markings**



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

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

# 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.

SEBU8832-28

Operation Section
Operation

63

# **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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