

JDLink™ M Modem - 4G



JOHN DEERE

OPERATOR'S MANUAL

JDLink™ M Modem - 4G

OMPFP22651 ISSUE J2 (ENGLISH)



CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

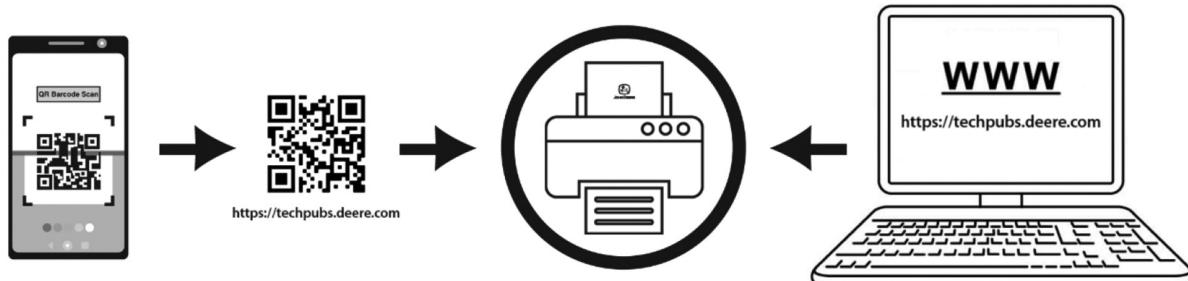
WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Introduction

Download Instructions



Instructions, manuals, and other documents may be downloaded at [www.techpubs.deere.com](https://techpubs.deere.com). Scanning the QR code on a mobile device will route to the site automatically.

Les instructions, les manuels et autres documents peuvent être téléchargés à cette adresse: [www.techpubs.deere.com](https://techpubs.deere.com). Scanner le QR code via un appareil mobile mène automatiquement au site.

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TS1746—UN—26APR21
DX, DOWNLOADINSTRUCTIONS, AT-19-27APR21

Foreword

THANK YOU for purchasing a John Deere product.

READ THIS MANUAL carefully to learn how to operate and service your product correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your product may also be available in other languages. (See your John Deere dealer to order.)

THIS MANUAL SHOULD BE CONSIDERED a

permanent part of your product and should remain with the product when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined

by facing in the direction the machine or implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Operator's Manual. Accurately record all the numbers to help in tracing the product should it be stolen. Your dealer also needs these numbers when you order parts. File a backup of the identification numbers in a safe location off the machine or away from the product.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied.

If you are not the original owner of this product, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

Serial Number:

JS56696 0000C4C-19-03EEB17

John Deere Technical Information Bookstore

Product functionality may not be fully represented in this document due to product changes occurring after time of printing. Read the latest Operator's Manual prior to operation. To obtain a copy, see your dealer or visit techpubs.deere.com.

CZ76372.000071F-19-08OCT19

ZXLink™

ZXLink™ is synonymous with JDLLink™.

AE77568,0000495-19-05OCT20

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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Safety

Recognize Safety Information



T81389—UN—28JUN13

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

DX,ALERT-19-03OCT22

Follow Safety Instructions



TS201—UN—15APR13

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

DX,READ-19-01AUG22

! DANGER

! WARNING

! CAUTION

TS187—19—30SEP88

DANGER: The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL-19-05OCT16

Practice Safe Maintenance

TS218—UN—23AUG88

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

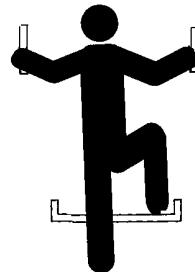
Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.

DX,SERV-19-28FEB17

Use Steps and Handholds Correctly

T133468—UN—15APR13

Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.

Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.

DX,WW,MOUNT-19-12OCT11

Handle Electronic Components and Brackets Safely

TS249—UN—23AUG88

Falling while installing or removing electronic components mounted on equipment can cause serious injury. Use a ladder or platform to easily reach each mounting location. Use sturdy and secure footholds and handholds. Do not install or remove components in wet or icy conditions.

If installing or servicing a RTK base station on a tower or other tall structure, use a certified climber.

If installing or servicing a global positioning receiver mast used on an implement, use proper lifting techniques and wear proper protective equipment. The mast is heavy and can be awkward to handle. Two people are required when mounting locations are not accessible from the ground or from a service platform.

DX,WW,RECEIVER-19-24AUG10

Use Electronic Display Properly

Electronic displays are secondary devices intended to

aid the operator in performing field operations, increase comfort and provide entertainment. Displays offer a wide range of functionality, are used in many different machine system applications and can be used with other secondary devices such as handheld electronic devices.

A secondary device is any device that is not required to operate your machine for its primary use. The operator is always responsible for safe operation and control of the machine.

To prevent injury while operating the machine:

- Position the display according to the installation instructions. Ensure that the device is secured and does not obstruct the driver's view or interfere with the machine operating controls.
- Do not become distracted by the display. Stay alert. Pay attention to the machine and surrounding environment.
- Do not change settings or access any functions that require prolonged use of the display controls while machine is moving. Stop the machine in a safe location and place in park position before attempting such operations.
- Never set the volume so high that you cannot hear outside traffic and emergency vehicles.

To promote safe operation, certain functions of displays may be disabled unless the machine movement is restricted and/or has been placed in the park position. Overriding this safety feature may violate applicable law and can result in damage, serious injury, or death.

Only use available display functionality when conditions permit you to do so safely and in accordance with instructions provided. Always observe safe driving rules, state, or local laws and traffic regulations when using any secondary device.

DX,ELEC,DISPLAY-19-13JAN15

Prevent Electrical Shock and Fires



PC12631—UN—04JUN10

Battery-powered equipment or other electric power

sources produce an electrical shock, sparks, or arcs if a short circuit occurs. Electrical short circuits can reach temperatures high enough to burn people, or ignite or melt common materials.

To prevent injury from electrical shock, burns, or potential fire hazards, always disconnect battery power or other electric power source on equipment before installing or servicing:

- Remove ground (negative terminal [-]) battery clamp.
- Detach and remove battery.
- Switch off main battery or other electric power source.
- Unplug electric power source from equipment.

Understand and follow all local codes and regulations when installing electrical equipment.

HC94949,0000487-19-27JAN14

Avoid Exposure to High Radio Frequency Fields



PC12632—UN—04JUN10

Prevent injury from exposure to high radio frequency fields at the JDLink™ Modem and satellite antennas. Do not touch the modem or satellite antennas while the system is transmitting. Always disconnect power to the modem and satellite antennas before installing or servicing.

The modem and satellite antennas should always be separated from the operator or nearby persons by a minimum distance of 21 cm (9 in).

BVVMSIT,0000F42-19-29APR22

Regulatory and Compliance Information

Federal Communications Commission Notifications to User

JDLink™ M Modem - 4G and Satellite Module

These devices comply with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

These devices must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to these devices without the express written approval of John Deere Ag Management Solutions may void the user's authority to operate these devices.

This equipment has been tested and found to comply with the limits for Class B digital devices, 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, no guarantee shall be made 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.

Supplier's Declaration of Conformity

Unique Identifier: JDLink™ M Modem - 4G
Satellite Module

Responsible Party: Deere & Company
One John Deere Place
Moline, IL 61265
FCCInfo@JohnDeere.com

JDLink is a trademark of Deere & Company

BVVMSIT,0000F35-19-18MAR22

Federal Communications Commission Notifications to User

Ethernet Switch

This device complies with part 15 of Federal Communications Commission (FCC) rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, the user will be required to correct the interference at his own expense.

These devices must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to these devices without the express written approval of John Deere Ag Management Solutions may void the user's authority to operate these devices.

AE77568,0000367-19-07JUN17

Third-Party Software Notifications and Licenses

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192.168.69.1/ossd

To the extent required under the applicable copyleft open source license, you may obtain the complete Corresponding Source Code from us for a period of three years after our last shipment of the software by sending a request letter to the following address:

Deere Open Source Compliance Team
P.O. Box 1202

JDLink is a trademark of Deere & Company

Moline, IL 61266-1202
USA

In your request letter, please include the corresponding copyleft source code for the most recent version of the software or a specific version number of software referenced in your letter for the JDLink™ Modem or other referenced John Deere product.

BVVMSIT,0000F36-19-31MAR22



C-27968

APY80216—UN—01NOV22
BVVMSIT,0000EB8-19-20OCT22

Homologação Anatel

Este equipamento não tem direito a proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Este produto foi homologado no Brasil pela Anatel, de acordo com a Resolução 715/2019 e demais requisitos técnicos.

Para mais informações, favor consultar
www.anatel.gov.br.

PC28590—UN—10DEC21
BVVMSIT,0000C82-19-10DEC21

Argentina—Certification Information JDLink™ R Modem

R! C-28297

APY80215—UN—01NOV22

Satellite Module

CNC H-16025

APY69267—UN—03FEB22

Bolivia and Paraguay—JDLink™ M Modem and Satellite Module Model

JDLink™ M Modem Model: MA4M

Satellite Module Model: MASM

bvvmsit,1655307445213-19-15JUN22

Paraguay and Guatemala—General Disclaimer

Restrictions of use of the country:

Paraguay and Guatemala can require specific authorization for the user in order to put the equipment in operation.

IMPORTANT: Contact your local authority in Paraguay or Guatemala to obtain country-specific information about authorization.

RW00482,00009A1-19-05MAR20

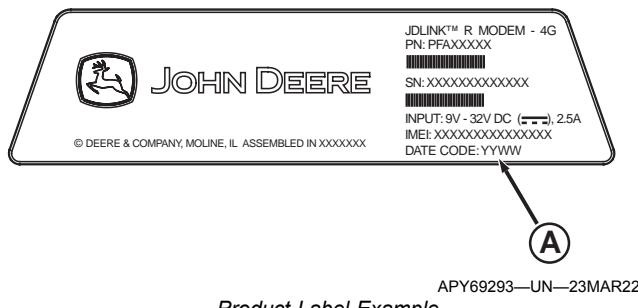
Paraguay Dealer

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AE77568,0000496-19-06DEC18

Identify Date Code**JDLink™ M Modem - 4G**

Product Label Example

A—Date Code

Use the date code (A) on the product label to identify the date of manufacture (DOM).

DATE CODE: YYWW

APY69244—UN—07JAN22

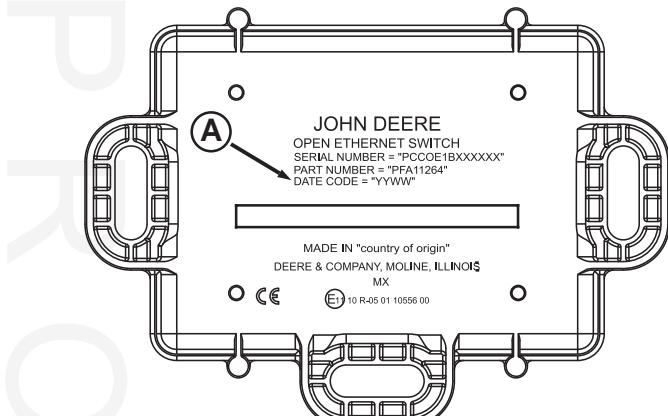
Date Code Example

B—Last Two Numbers of Year of Manufacture**C—Week Number of Calendar Year of Manufacture**

"YY" identifies the last two numbers of the year of manufacture (B); "WW" identifies the week number of calendar year of manufacture (C).

NOTE: The week number of manufacture ranges between 01—53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: 20 = 2020 21 = 2021 22 = 2022
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53
BVVMSIT,0000F38-19-23MAR22		

Identify Date Code**Ethernet Switch**

Product Label Example

A—Date Code

Use the date code (A) on the product label to identify the date of manufacture (DOM).

DATE CODE = YYWW

APY69245—UN—07JAN22

Date Code Example

B—Last Two Numbers of Year of Manufacture**C—Week Number of Calendar Year of Manufacture**

"YY" (B) identifies the last two numbers of the year of manufacture; "WW" (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: 20 = 2020 21 = 2021 22 = 2022
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53
BVVMSIT,0000D0E-19-07JAN22		

Industry Canada Notifications to User

John Deere JDLink™

This device complies with Industry Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RF Exposure Guidance

This equipment complies with FCC and Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 21 cm (9 in) between the radiator and persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC and Industry Canada multi-transmitter product procedures.

APY69387—UN—25JUL22

John Deere JDLink™

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Guidance

Cet équipement est conforme aux normes FCC et les limites d'exposition aux rayonnements Industrie Canada énoncées pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 21cm (9in) entre le radiateur et les personnes. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec une autre antenne ou un autre émetteur, sauf en conformité avec la FCC et Industrie Canada Procédures de produits multi-émetteurs.

APY69388—UN—25JUL22
BVVMSIT,00001098-19-29APR22

Antenna Information

These transmitting devices (Satellite Module) have been approved to operate with the antenna types listed below with maximum permissible gain and required antenna impedance for each antenna type 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 these devices.

Satellite Module (Contains FCC ID: PB5Q9612, Contains IC: 4650A-Q9612 and 4650A-QLOCATE)

Antenna: PF81427

- 1616-1625.5 MHz Frequency
- 50 Ω Required Impedance
- 0 dBi Maximum Permissible Gain

BVVMSIT,0000F39-19-29APR22

Vietnam—ROHS Declaration

This product complies with Circular 30/2011/TT-BCT,

regulating the allowable limits for hazardous substances in electronic and electric products.

BVVMSIT,0000EBA-19-03FEB22

EU Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): John Deere JDLink™ M Modem - 4G

Model(s): MA4M

fulfill(s) all relevant provisions and essential requirements of the following directives:

JDLink is a trademark of Deere & Company

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Radio Equipment Directive (RED)	2014/53/EU	Annex II of the Directive
Restriction of Hazardous Substances	2011/65/EU	Article 7 of the Directive
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 62311:2008

EN 55032:2015/A11

EN 62368-1: 2014+ A11: 2017

EN 55035:2017/A11:2020

EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013

EN ISO 13766-1:2018

EN 60950-22:2006 + Am:2009

EN ISO 14982: 1998

ETSI EN 301 489-1 V2.2.3

ETSI EN 300 328 V2.2.2

ETSI EN 301 489-1 V1.9.2

ETSI EN 301 511 V12.5.1

ETSI EN 301 489-17 V3.2.4

ETSI EN 301 908-1 V13.1.1

ETSI EN 301 489-19 V2.2.0

ETSI EN 301 908-13 V11.1.2

ETSI EN 301 489-52 V1.1.0

ETSI EN 303 413 V1.1.1

EN 55024:2010/A1:2015

Name and address of the person in the European Community authorized to compile the technical construction file:

John Deere Walldorf GmbH & Co. KG
Customer Support
Impexstraße 3
D-69190 Walldorf
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, IA, USA

Name: Scott Torgerson

Date of Declaration: 17 December 2021

Title: Delivery Manager Electronic Hardware

Manufacturing Unit: Deere & Company, Moline, IL 61265

BVVMSIT,0000F3A-19-18MAR22



DXCE01—UN—28APR09

UK Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): John Deere JDLink™ M Modem - 4G

Model(s): MA4M

fulfill(s) all relevant provisions and essential requirements of the following UK regulations:

REGULATION	NUMBER	CERTIFICATION METHOD
The Electromagnetic Compatibility Regulations	S.I. 2016 / 1091	Schedule 2, Module A
The Radio Equipment Regulations	S.I. 2017 / 1206	Schedule 2, Module A
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations	S.I. 2012 / 3032	Part 2, Section 12

The product is in conformity with the following standards and/or other normative documents:

EN 62311:2008

EN 55032:2015/A11

EN 62368-1: 2014+ A11: 2017

EN 55035:2017/A11:2020

EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013

EN ISO 13766-1:2018

EN 60950-22:2006 + Am:2009

EN ISO 14982: 1998

ETSI EN 301 489-1 V2.2.3

ETSI EN 300 328 V2.2.2

ETSI EN 301 489-1 V1.9.2

ETSI EN 301 511 V12.5.1

ETSI EN 301 489-17 V3.2.4

ETSI EN 301 908-1 V13.1.1

ETSI EN 301 489-19 V2.2.0

ETSI EN 301 908-13 V11.1.2

ETSI EN 301 489-52 V1.1.0

ETSI EN 303 413 V1.1.1

EN 55024:2010/A1:2015

Name and address of the person authorized to compile the technical construction file:

John Deere Ltd.
Harby Road
Langar
Nottinghamshire
NG13 9HT
United Kingdom
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA

Name: Scott Torgerson

Date of Declaration: 17 December 2021

Title: Delivery Manager Electronic Hardware

Manufacturing Unit: Deere & Company, Moline, IL 61265

Ag & Turf Products Importer: John Deere Ltd., Harby Road, Langar, Nottinghamshire, NG13 9HT, United Kingdom

Forestry Products Importer: John Deere Forestry Ltd- Carlisle Airport Industrial Estate, Carlisle, Cumbria, CA6 4NW, United Kingdom

Construction Importer: Wirtgen Limited, Wirtgen Group House, Overfield Park, Godfrey Drive, Newark, Notts. NG24 2UA, United Kingdom

BVVMSIT,0000F3B-19-18MAR22



RXA0179545—UN—16APR21

EU Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): Outdoor T1 Repeater

Model(s): PFP18336

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 55024:2010

EN 55032:2012/AC:2013

EN 55022:2008

EN ISO 13766-1:2018

EN ISO 14982:2009

Name and address of the person in the European Community authorized to compile the technical construction file:

John Deere Walldorf GmbH & Co. KG
Customer Support
Impexstraße 3
D-69190 Walldorf
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, IA, USA

Date of Declaration: 2 September 2021

Manufacturing Unit: Deere & Company, Moline, IL 61265

Name: Scott Torgerson

Title: Delivery Manager Electronic Hardware



DXCE01—UN—28APR09
BVVMSIT,0000EBC-19-03FEB22

UK Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): Outdoor T1 Repeater

Model(s): PFP18336

fulfill(s) all relevant provisions and essential requirements of the following UK regulations:

REGULATION	NUMBER	CERTIFICATION METHOD
The Electromagnetic Compatibility Regulations	S.I. 2016 / 1091	Schedule 2, Module A

The product is in conformity with the following standards and/or other normative documents:

EN 55024:2010

EN 55032:2012/AC:2013

EN 55022:2008

EN ISO 13766-1:2018

EN ISO 14982:2009

Name and address of the person authorized to compile the technical construction file:

John Deere Ltd.
Harby Road
Langar
Nottinghamshire
NG13 9HT
United Kingdom
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA

Date of Declaration: 2 September 2021

Name: Scott Torgerson

Manufacturing Unit: Deere & Company, Moline, IL 61265

Title: Delivery Manager Electronic Hardware

Ag & Turf Products Importer: John Deere Ltd., Harby Road, Langar, Nottinghamshire, NG13 9HT, United Kingdom

Forestry Products Importer: John Deere Forestry Ltd- Carlisle Airport Industrial Estate, Carlisle, Cumbria, CA6 4NW, United Kingdom

Construction Importer: Wirtgen Limited, Wirtgen Group House, Overfield Park, Godfrey Drive, Newark, Notts. NG24 2UA, United Kingdom



RXA0179545—UN—16APR21
BVVMSIT,0000EBD-19-18OCT22

EU Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): Open Ethernet Switch

Model(s): COE1

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 55024:2010

EN 55032:2012/AC:2013

EN ISO 13766-1:2018

EN ISO 14982:2009

Name and address of the person in the European Community authorized to compile the technical construction file:

John Deere Walldorf GmbH & Co. KG

Customer Support

Impexstraße 3

D-69190 Walldorf

EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, IA, USA

Date of Declaration: 26 August 2021

Manufacturing Unit: Deere & Company, Moline, IL 61265

Name: Scott Torgerson

Title: Delivery Manager Electronic Hardware



DXCE01—UN—28APR09
BVVMSIT,0000EBE-19-18OCT22

UK Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): Open Ethernet Switch

Model(s): COE1

fulfill(s) all relevant provisions and essential requirements of the following UK regulations:

REGULATION	NUMBER	CERTIFICATION METHOD
The Electromagnetic Compatibility Regulations	S.I. 2016 / 1091	Schedule 2, Module A

The product is in conformity with the following standards and/or other normative documents:

EN 55024:2010

EN 55032:2012/AC:2013

EN ISO 13766-1:2018

EN ISO 14982:2009

Name and address of the person authorized to compile the technical construction file:

John Deere Ltd.
Harby Road
Langar
Nottinghamshire
NG13 9HT
United Kingdom
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA

Date of Declaration: 26 August 2021

Manufacturing Unit: Deere & Company, Moline, IL 61265

Name: Scott Torgerson

Title: Delivery Manager Electronic Hardware

Ag & Turf Products Importer: John Deere Ltd., Harby Road, Langar, Nottinghamshire, NG13 9HT, United Kingdom

Forestry Products Importer: John Deere Forestry Ltd- Carlisle Airport Industrial Estate, Carlisle, Cumbria, CA6 4NW, United Kingdom

Construction Importer: Wirtgen Limited, Wirtgen Group House, Overfield Park, Godfrey Drive, Newark, Notts. NG24 2UA, United Kingdom

UK
CA

RXA0179545—UN—16APR21
BVVMSIT,0000EBF-19-18OCT22

EU Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): Open Ethernet Switch

Model(s): COE2

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 55024:2010

EN 55032:2012/AC:2013

EN ISO 13766-1:2018

EN ISO 14982:2009

Name and address of the person in the European Community authorized to compile the technical construction file:

John Deere Walldorf GmbH & Co. KG
Customer Support
Impexstraße 3
D-69190 Walldorf
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, IA, USA

Date of Declaration: 26 August 2021

Manufacturing Unit: Deere & Company, Moline, IL 61265

Name: Scott Torgerson

Title: Delivery Manager Electronic Hardware



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BVVMSIT,0000EC0-19-18OCT22

UK Declaration of Conformity

Deere & Company
Moline, Illinois, U.S.A.

The undersigned hereby declares that:

Product Name(s): Open Ethernet Switch

Model(s): COE2

fulfill(s) all relevant provisions and essential requirements of the following UK regulations:

REGULATION	NUMBER	CERTIFICATION METHOD
The Electromagnetic Compatibility Regulations	S.I. 2016 / 1091	Schedule 2, Module A

The product is in conformity with the following standards and/or other normative documents:

EN 55024:2010

EN 55032:2012/AC:2013

EN ISO 13766-1:2018

EN ISO 14982:2009

Name and address of the person authorized to compile the technical construction file:

John Deere Ltd.

Harby Road

Langar

Nottinghamshire

NG13 9HT

United Kingdom

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This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA

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Deere Open Source Compliance Team
P.O. Box 1202
Moline, IL 61266-1202
USA

BVMSIT,0000F4D-19-31MAR22

System Overview

JDLink™ M Modem - 4G Theory of Operation

JDLink™ M Modem - 4G is one of the main components that enable John Deere telematics solutions. The JDLink™ M Modem - 4G is a control unit that contains firmware, a cellular modem, and a non-removable internal subscriber identification module (SIM) device. The modem transfers data to and from the JDLink™ host server over a cellular network. The modem also contains a wireless component that is used to transfer data when connected to a wireless network.

JDLink™ requires the purchase of appropriate connected hardware. When the modem is powered on by the machine for the first time, it registers with the JDLink™ host server and receives the authorization to report data.

Modem Communication

The modem sends and receives data and messages over cellular or wireless networks. The modem supports other telematics solutions, including Service ADVISOR™ Remote, John Deere Remote Display Access, John Deere Wireless Data Transfer, and In-Field Data Sharing.

Telematics solution applications, such as Remote Display Access, require an uninterrupted cellular connection to function. Other telematics solution applications, such as Wireless Data Transfer, Machine Sync shared data, and In-Field Data Sharing, store information on the display and transmit data when a cellular connection is established. Telematics solutions, such as JDLink™, do not require an uninterrupted cellular connection because the modem can store machine data for up to 1000 hours. When the modem returns to an area of cellular coverage, the most recent 1000 hours of data are forwarded to the host server at its next scheduled time.

When powering down the machine, the modem remains powered for the time needed for functions to complete. The modem enters a sleep state for up to seven days. During sleep state, the modem calls in during its scheduled times. When JDLink™ curfews and geofence alerts are set, the modem checks for any changes in its environment. After sleep state, the modem enters a hibernation state and is not able to send or receive data. The only way to wake the modem from hibernation state is to turn on the key switch and power up the machine.

Machine Shared Data Capabilities

The modem supports machine-to-machine communication on a GreenStar™ 3 2630 Display. Utilizing appropriate activation/subscription, displays can share data, such as coverage maps and guidance lines, between multiple machines. For Generation 4 Displays, machine-to-machine communication is

enabled by utilizing an appropriate activation or subscription.

Remote Service Capabilities

The modem supports remote service capabilities. Service ADVISOR™ Remote is a tool for a dealer technician to service other machine control units using the modem. The operator must accept the download and installation procedures. The modem also receives firmware updates remotely from John Deere that do not require operator or dealer intervention.

JDLink™

Data sent by the modem is made available to registered users using the password-secured JDLink™ website. Notifications are sent to users through e-mail or SMS text messaging. The dealer must log in to transfer the modem to a new customer account.

View current and historical status of equipment on JDLink™. The information collected includes location, machine hours, idle time, maintenance intervals, and other machine settings. Use the website (<https://jmlink.deere.com/>) to send a request to the modem to view real-time status of a machine.

Wireless Network

The wireless component within the modem allows communication to local networks (such as mobile devices, and computers) and local access points (such as a home or shop network). The modem can send and receive data and messages over a wireless network the same as over a cellular network.

Use a Generation 4 Display or the EquipmentPlus application to connect the modem to a mobile device or local wireless network.

Wireless Tethering

Wireless tethering, when enabled, sets the wireless component as the primary communication method of the modem. The cellular component is used as a secondary communication method if a wireless network is unavailable. With both the key switch ON and OFF, the modem uses the same priority for scheduled call-ins.

NOTE: Whenever a wireless-capable display is connected to the modem, wireless tethering is automatically enabled.

Wireless tethering can be enabled after activating the JDLink™ service and registering the modem. After the initial registration, wireless setup and wireless data transfer no longer require an active JDLink™ service.

Once enabled, the modem attempts to connect to any saved wireless networks that are authenticated. If a wireless network without internet access is recognized, the modem still connects to the network and will not call in using the cellular network.

To disable wireless tethering, use the EquipmentPlus application or a connected display.

EquipmentPlus Application

NOTE: When making a wireless connection from the machine to a local network, individual data rates from that network may apply.

The EquipmentPlus application manages wireless networks for the machine modem. EquipmentPlus saves wireless network credentials and uses that information to connect to available local wireless networks.

The EquipmentPlus application is available for both Apple® and Android™ devices and can be downloaded through the Apple App Store® or Google Play™. It is available as part of the John Deere App Center application or as a stand-alone application.

Communication between EquipmentPlus and the modem is only available when the key switch is turned to run and the engine is off. The mobile device must also be within 12.2 m (40 ft) of the machine cab. After turning the key switch to run, it takes about 1 minute for Bluetooth® to connect. Only one mobile device can connect to the machine at a time using Bluetooth®.

(Reference EquipmentPlus Onscreen Help for more information.)

Bluetooth®

Bluetooth® wireless technology enables connectivity to mobile devices for wireless network configuration and information viewing on machines without supported on-board displays. This technology can identify supported Bluetooth® Low Energy (BLE) beacons for released applications.

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Wireless Connectivity—Formerly Customer-Owned SIM Card

Use of the cellular modem may not be supported in some countries. To establish a successful connection in these areas, tethering the modem to a wireless connection, such as a hotspot or other local wireless network, is required for machine connectivity. (For more information, refer to the Machine to Wireless section for wireless tethering instructions.)

NOTE: When making a wireless connection from the machine to a local network, individual data rates from that network may apply.

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Satellite Module Theory of Operation

In select regions, an optional satellite module is offered that is a companion to the JDLink™ M Modem - 4G. JDLink™ satellite module hardware looks like modem hardware but contains a satellite component. The satellite module allows the modem to transfer data to and from the JDLink™ host server over a satellite connection when a valid cellular or wireless network is unavailable.

After the satellite module is installed with the modem, satellite service must be activated for the satellite module to communicate over the satellite network.

Satellite Communication

Scheduled call frequency defaults to one call per day when using the satellite module.

As long as the modem has cellular coverage, the satellite module is not used. The modem attempts to call using last successful method (cellular or satellite signal). If machine moves into an area of weak or no cellular coverage, the modem cannot complete a call. JDLink™ and John Deere Operation Center show that the machine missed a call. An hour after the failed call, the modem escalates the call to the satellite module.

If the modem moves out of cellular coverage, it can take up to 25 hours before the message is received or sent to the machine using the satellite module.

Calls using satellite signal are marked with a satellite icon on JDLink™.

NOTE: The machine must have a clear view of the sky to connect to the satellite network.

Alert Messages with Satellite

All telematics messages have a routing class and priority that determine whether they are sent immediately or with the next call attempt. The system determines whether messages are sent using the modem or satellite module if the initial cellular call failed.

- Red alerts are sent immediately.
- Yellow and informational alerts are sent during each scheduled call-in. The alerts must be greater than 2 hours old at the time of the call to be transmitted. These alerts can also be requested by initiating a call from JDLink™.
- Security alerts, such as geofence and curfew, depend on user-defined website settings.
- Requests sent from website to machine are retrieved within about 5 minutes. If request was the first communication with a machine after leaving an area of cellular coverage, requests can take up to 1 hour.

Some limitations exist when using a satellite module. Applications that require an uninterrupted cellular

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connection are not supported. For example, Service ADVISOR™ Remote, John Deere Remote Display Access, John Deere Wireless Data Transfer, and John Deere Machine Sync data shared are not supported due to the limited capacity and latency of the satellite connection.

prevents the purchaser from viewing Machine Data and from using the Service ADVISOR™ Remote service. Machine Data may be transferred from the country where it is generated to another country, including to the U.S.A.

CZ76372,000091E-19-12JAN22

BVVMSIT,0000F3D-19-18MAR22

Data Collection

The JDLink™ product enables John Deere and John Deere dealers to access any data that the JDLink™ product has generated, collected, or stored during use and "Machine Data" from any devices interfacing with the JDLink™ product. JDLink™ requires the purchase of appropriate connected hardware. Purchasers may remove dealers' or John Deere's access to Machine Data using JDLink™ (jdlink.deere.com). However, removal of John Deere's access to Machine Data

JDLink™ Functions

NOTE: The availability of JDLink™ connectivity depends on the country. Contact your John Deere dealer for more information.

NOTE: The JDLink™ service may not be compatible with all MTG hardware. Contact your John Deere dealer for more information.

JDLink™ offers the following functions:

Function	Description
Machine states	Agricultural machines are monitored with the following machine states: Idle, Working, and Transport. Detailed states are available for some machine types. Construction and forestry machines are monitored with the following machine states: Key-On, Idle, Low Load, Medium Load, and High Load. (Reference Help on JDLink™ for more information, including machine state definitions for each machine type.)
Road map and satellite map location and driving directions	The map displays the last call-in location of a machine using the Google Maps™ mapping service. The map can be displayed as a street map, satellite imagery with no street information, satellite imagery with a street map overlay, or a land contour map with a street map overlay. To generate driving directions to or from the machine, select a machine icon.
Machine hours	Machine hours function displays hours that a machine was on or off and the dates those hours were reported. To view hours for a specific date range, select the time filters.
Geofence and curfew alerts	Geofence allows an area to be defined. An alert can be set up to notify the owner when the machine enters or exits that specific geofence. To set when a machine is allowed to turn on, enable the curfew alerts feature. For example, if a curfew allows for a machine to operate from 9 a.m. to 5 p.m., and that machine is started at 6:05 p.m., an alert is sent. These alerts can be sent through email.
Hours of operation	The hours of operation function displays hours and time of day that a machine was running or shut down by month.
Export or scheduled email report	Schedule a specified frequency (daily, weekly, or monthly) when the Engine Hours, Utilization, and Maintenance reports are emailed. Machine Data package provides previously owned Machine Data for the selected date range.
Service ADVISOR™ Remote	Service ADVISOR™ Remote (SAR) allows remote access to view diagnostic trouble code information, create readings and recordings, and program control units without having to visit the machine. (Reference Operating—Service ADVISOR™ Remote for more information.)
Machine Data	The JDLink™ M Modem - 4G records data from sensors throughout the machine. The types of advanced machine utilization data collected vary by machine type and model. One example of machine utilization information is a table that displays the amount of fuel consumed by each machine. Other examples are average fuel rate, average ground speed, average engine speed, and average coolant temperature.
System usage information (percent of AutoTrac™ utilization)	System usage information displays the amount of time that certain components and features of the machine are in use (for example, AutoTrac™ or IVT™).
Maintenance Manager Dashboard	The maintenance profile displays when machines are coming due, are due, or are overdue for maintenance. Partnership access can be granted to a John Deere dealer so maintenance can be scheduled right away.
Remote diagnostics using diagnostic trouble codes	JDLink™ can alert when a machine issues a diagnostic trouble code. Managers can access the website and view exactly which codes were generated on the machine. Partnership access can be granted to a dealership, allowing access to view the diagnostic trouble codes of the machines. A dealer can also receive alerts through email using Saved Search in the Notification Center.
John Deere Remote Display Access (RDA)	RDA enables the display of a machine being operated in the field to be viewed live on an internet-connected device, such as a computer, tablet, or smartphone.

Function	Description
John Deere Wireless Data Transfer (WDT)	WDT enables setup data, prescriptions, and documentation data to be uploaded from or downloaded to the display using the modem.

Google Maps is a trademark of Google Inc.
 Service ADVISOR is a trademark of Deere & Company
 JDLink is a trademark of Deere & Company
 AutoTrac is a trademark of Deere & Company
 IVT is a trademark of Deere & Company

BVVMISIT,0000F3E-19-18MAR22

Satellite Module Service Level

When the satellite module is in use, data from several JDLink™ functions are transferred from the machine to the website. However, the satellite module does not support all functions. The JDLink™ M Modem - 4G can store up to 1000 hours of the remaining data not sent by the satellite module. On the next cellular call, the most recent 1000 hours of stored data is transferred to the website from the modem.

To confirm that the satellite module is calling in and the modem has a satellite configuration, check the website. On the Terminals App Overview card, both the "Communication" and "Last Call In" should show a satellite icon.

There are currently nine data items that are common across all John Deere machines that are capable of satellite access, regardless of service level.

- Fuel Tank Level
- Fuel Utilization
- Last Engine Hour Meter
- Machine Utilization
- Max Coolant Temp
- Max Hydraulic Oil Temp
- Max Transmission Oil Temp
- Number.Aborted.Regen
- Number.Complete.Regen

BVVMISIT,0000F3F-19-18MAR22



Menu Button

PC17269—UN—15JUL13

1. Select the Menu button.



System Tab

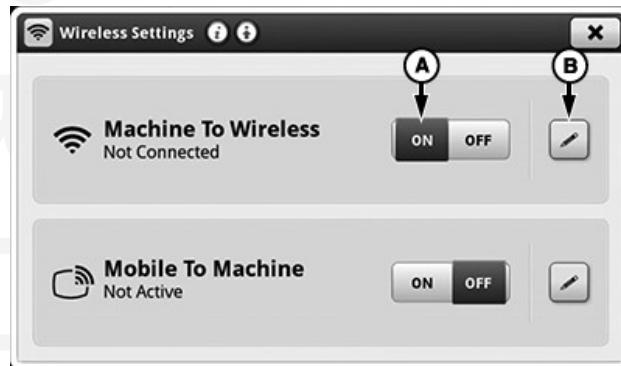
PC24253—UN—19MAY17

2. Select the System tab.



PC23092—UN—26SEP16
Wireless Settings Application

3. Select the Wireless Settings application.



PC28189—UN—12JAN22

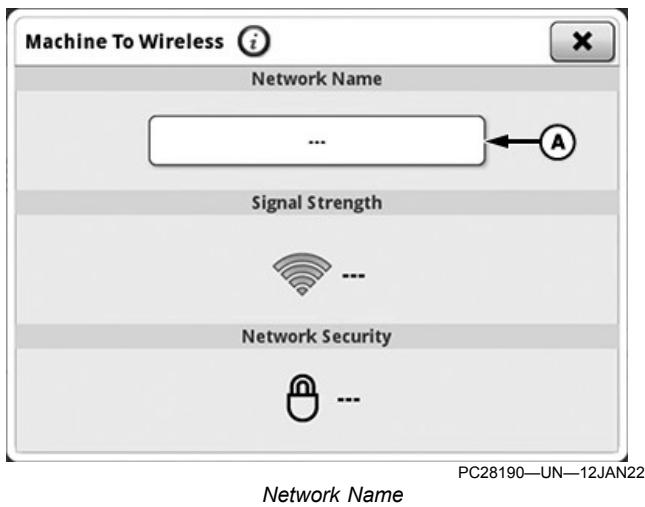
A—Machine to Wireless Toggle
 B—Edit Button

4. Turn Machine to Wireless ON using toggle (A).
5. Select Edit button (B).

Machine to Wireless

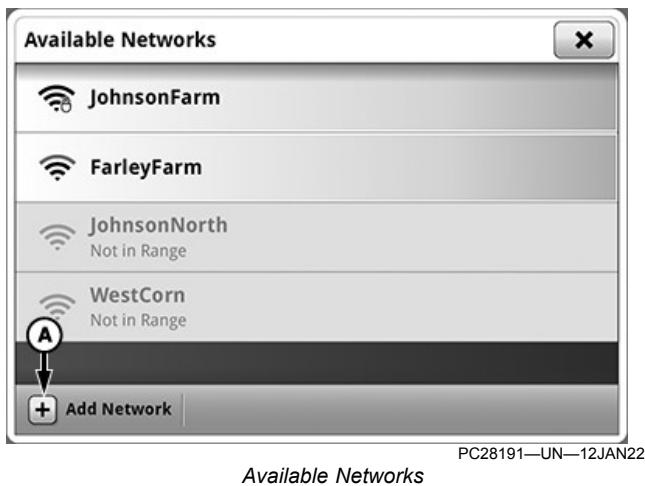
Machine to Wireless is a feature available on the Generation 4 Display and the EquipmentPlus application. Machine to Wireless configures the JDLink™ M Modem - 4G for wireless tethering. When enabled, a wireless network is the primary communication method of the modem.

To configure the Generation 4 Display:



A—Network Name Entry Box

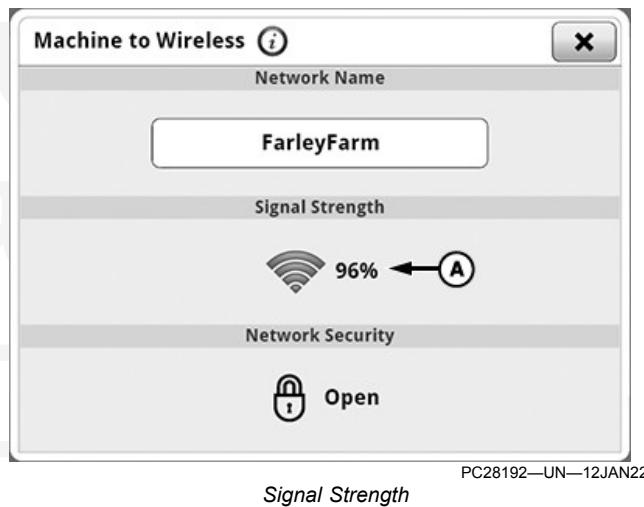
6. Select the Network Name entry box (A).



A—Add Network Button

7. Select a network from the list and enter the password.

If the desired network is not listed, Select the Add Network button (A) to enter the network information manually. The machine will connect to the network the next time the machine is in range.

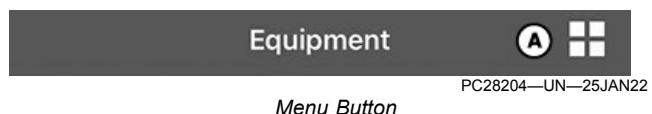


A—Signal Strength

8. When the machine is connected to a wireless network, the signal strength (A) is shown.

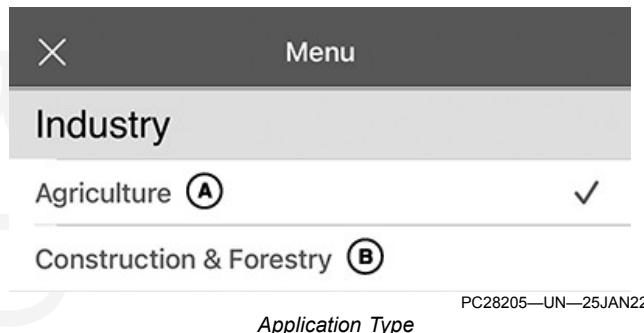
To configure a mobile device:

1. Make sure machine key switch is in the ON position and the engine is OFF.
2. Launch the EquipmentPlus application on the mobile device.



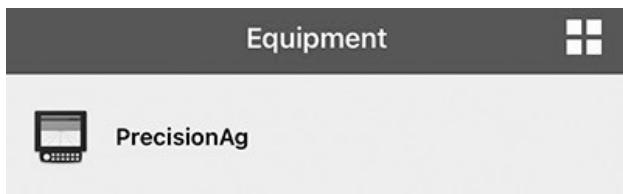
A—Menu Button

3. Select the menu button (A) in the upper right-hand corner.



A—Agriculture
B—Construction and Forestry

4. Depending on the application type, select either Agriculture (A) or Construction and Forestry (B).



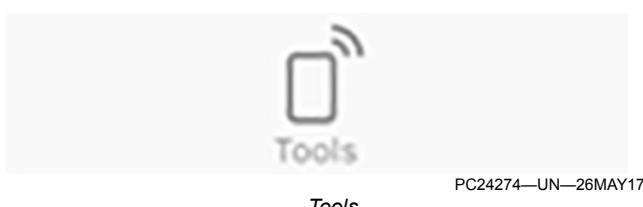
Components (A)

Components

PC28206—UN—25JAN22

A—Components Tab

5. Select the Components tab (A).



PC24274—UN—26MAY17

6. Select Tools at the bottom of the screen.



Machine to Wireless

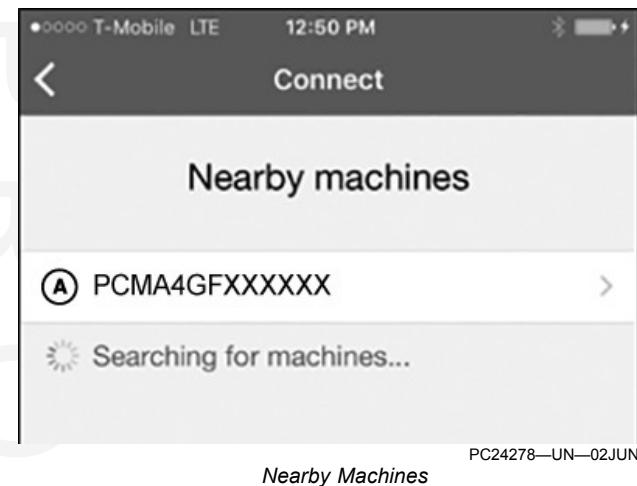
PC28193—UN—12JAN22

7. On the Tools page, select Machine to Wireless.



PC24277—UN—26MAY17

8. Select the Get Started button.

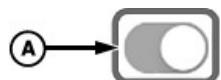
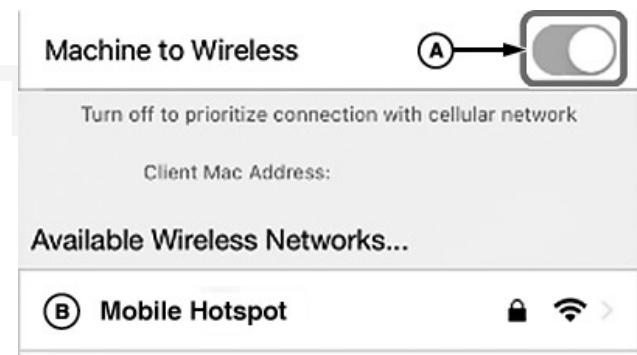


Nearby Machines

PC24278—UN—02JUN17

A—Available Machines List

9. Select the desired machine from the list of available machines (A).



PC28194—UN—12JAN22

Machine to Wireless

A—Machine to Wireless Toggle
B—Available Networks List

10. Enable the Machine to Wireless toggle (A). Select the desired network from the list of available networks (B).



PC28195—UN—12JAN22

11. Enter the network password and select Join to complete the connection.

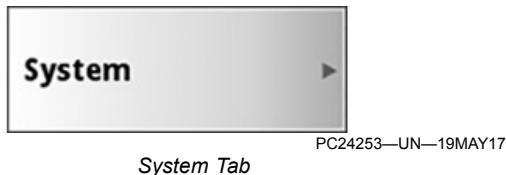
BVVMSIT,0000F40-19-18MAR22

Mobile to Machine

Mobile to Machine is a feature available on the Generation 4 Display and the EquipmentPlus application. Mobile to Machine configures the JDLink™ M Modem - 4G as a point of access for mobile devices and provides access to third-party software information.

To configure the Generation 4 Display:

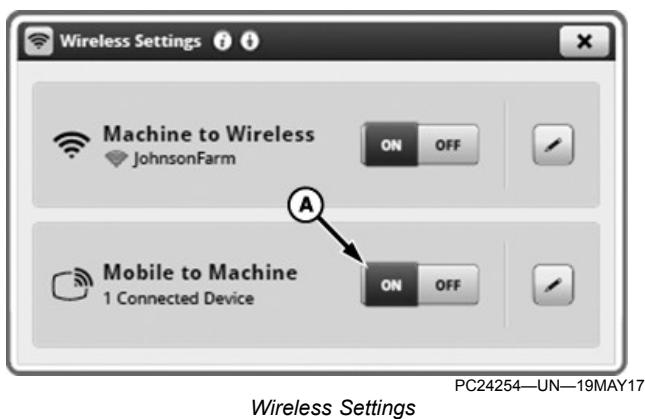
1. Select the Menu button.



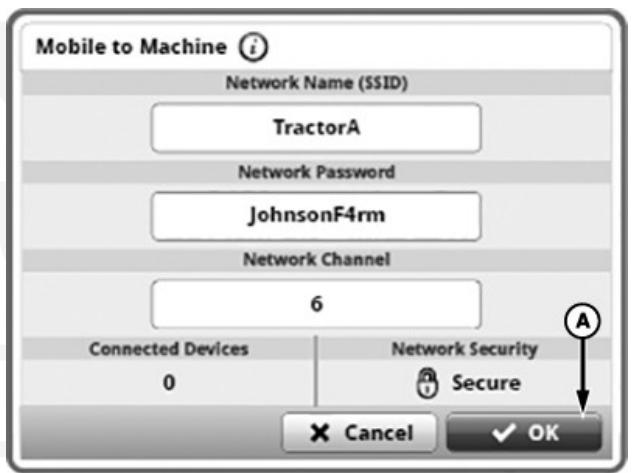
2. Select the System tab.



3. Select the Wireless Settings application.



4. Turn Mobile to Machine ON using toggle (A).



NOTE: A default network name and password are generated automatically.

Network name must be 8—13 characters in length.

Network password must be 8—21 characters in length.

5. Enter a unique network name and password. Select the OK button (A).
6. On the mobile device, search for the modem network name. Select the network and enter the password.



To change the network name or password or to view the number of connected devices, navigate to the Wireless Settings page and select the Edit button (A).

To configure a mobile device:

1. Launch the EquipmentPlus application on the mobile device.
2. Select Precision Ag/Components.



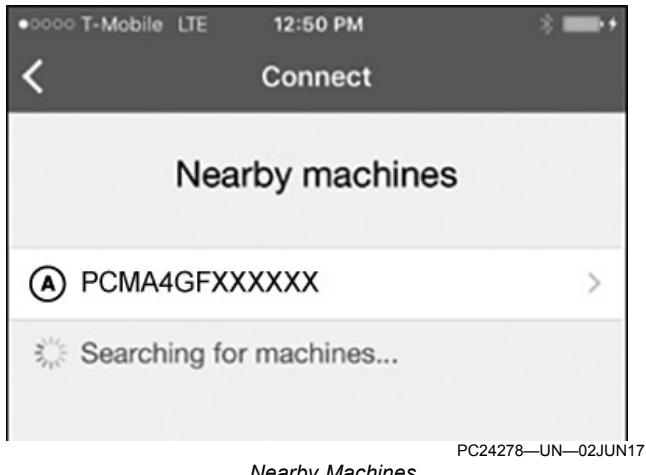
3. Select Tools at the bottom of the screen.



4. On the Tools page, select Mobile to Machine.

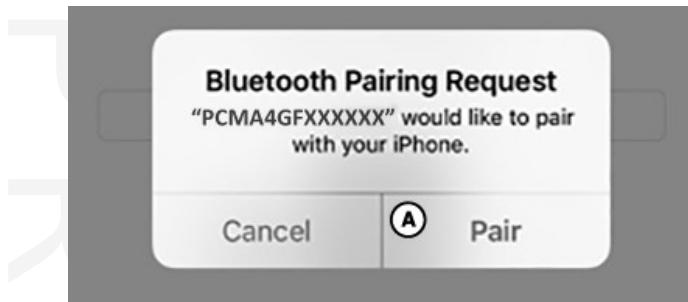


5. Select the Get Started button.



A—Available Machine

6. Select the desired machine (A).



A—Pair Button

7. To connect to the machine, select the Pair button (A).



8. To complete the connection, enter the network password and select the Save button.

BVVMSIT,0000F41-19-18MAR22

Component Overview

Components

JDLink™ system comprises the following hardware components:

- JDLink™ M Modem - 4G
- Integrated Cellular, GPS, and Wireless Antenna
- Satellite Module and Antenna (optional)
 - Satellite Module (select regions only)
 - Satellite Antenna (select regions only)
- Ethernet Switch (may not be included depending on machine type)

BVVMSIT,0000F43-19-30MAR22



APY69292—UN—23MAR22

LED Status Indicator

A—LED Status Indicator

LED status indicator (A) indicates current state of the modem.

NOTE: Once the modem is booted up, the LED status indicator cycles through each active feature color. The LED status indicator blinks off between each cycle.

- **Solid Off**—Off or sleep mode
- **Solid Amber**—Booting up
- **Blinking Amber**—Awake but no active communication
- **White**—Calling-in
- **Blue**—GPS active
- **Green**—Cell active
- **Magenta**—Wireless active

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APY69291—UN—21MAR22
JDLink™ M Modem - 4G

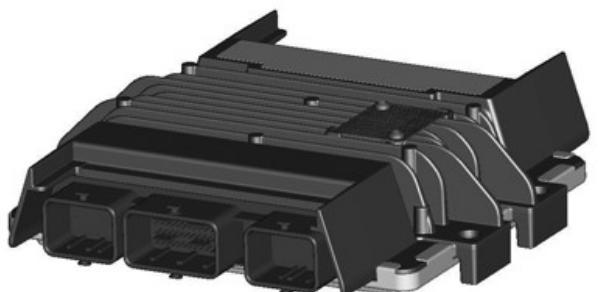
JDLink™ M Modem - 4G contains the following:

- Main processor
- Cellular modem
- Global positioning system (GPS) chipset
- Communication ports for the system
- LED status indicator
- Bluetooth® and wireless functionality

Satellite Module and Antenna

Satellite Module

NOTE: Satellite module is not offered and usage is not legal in all regions. Contact a John Deere dealer for availability.



Satellite Module

PC12694—UN—19JUL10

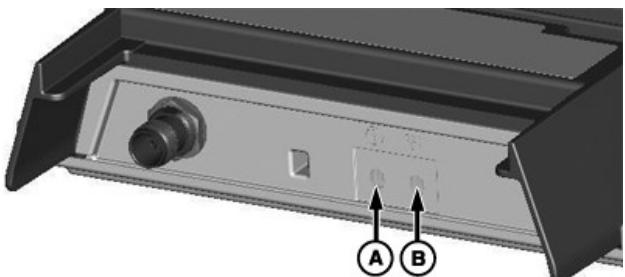
Satellite Antenna



Satellite Antenna

PC12642—UN—11JUN10

The optional satellite module is intended to support the JDLink™ M Modem - 4G and does not function properly as a standalone control unit. In locations with poor cell coverage, the satellite module can be used to communicate instead of the modem.



Satellite Module Header

PC15191—UN—31MAY12

A—Power Indicator
B—Network Available Indicator

The satellite module utilizes a single coaxial TNC connector for the antenna. The connector is a TNC receptacle. The matching connector is integrated into the antenna cable. There are two LED indicators on the end for the satellite module. The power indicator (A) is on the left and the network available indicator (B) on the right. The power indicator LED glows green whenever the module is commanded on by the modem, and the network indicator LED glows red when the satellite module detects the satellite network.

NOTE: Satellite antenna is not offered and usage is not legal in all regions. Contact a John Deere dealer for availability.

The satellite antenna sends and receives messages from the satellite module.

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Ethernet Switch



APY69209—UN—14DEC21
Config 1 Ethernet Switch



APY69210—UN—14DEC21
Config 2 Ethernet Switch



APY69211—UN—16DEC21
Ethernet Repeater

An Ethernet switch enables multiple devices to connect to the JDLink™ M Modem - 4G. It is not a required component of the JDLink™ system.

Ethernet switch modules available from John Deere are designed for use in agricultural environments. These modules conform with protection class IP67 (protection against shock and foreign particles; protection against the effects of temporary immersion in water).

NOTE: Reference the compatibility guide provided within the JDLink™ Sales Manual for additional power cables, adapters, and Ethernet information.

BVVMSIT,0000F46-19-04MAY22

Setup and Operation—JDLink™

Website Login

Creation of a customer account is required for new JDLink™ customers. Contact your John Deere dealer for assistance with creating a user name and password for your JDLink™ account.

When entering JDLink™, the operator is prompted to enter their user name and password. Operators with access to one organization are taken directly to their account.

AE77568,000047B-19-19OCT20

- Application is not recommended below 0°C (32°F).

bvvmsit,1652938376921-19-02NOV22

Getting Started

JDLink™ Setup

Setup for the JDLink™ M Modem - 4G can only be done through the JDLink™ terminals application or by the dealer using Service ADVISOR™.

NOTE: The modem cannot be set up using the machine or the GreenStar™ Display.

Required Information

The John Deere dealer is responsible for transferring the JDLink™ terminal into the customer's organization. The following information is needed for the transfer to be processed.

- Organization Information
This account manages all the terminals and users for a business or group.
- Customer User Name
Ensure that this profile is the main user for the account so they can be set up as an administrator. The customer user name is also the same user name that the customer uses to access stellarsupport.com.
- Equipment PIN

This is the machine PIN the dealer is transferring into the customer's account.

New Transferred Terminal

Once the dealer has transferred the terminal to the customer's organization, the customer must log in to JDLink™ using their user name and password. Once transferred, the terminal setup information and settings can be changed.

After the terminal is configured to the user's preferences, the terminal is ready.

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Suggested Adhesive Application Temperature Ranges:

- Remove protective paper from adhesive pad on modem, position modem on the machine, and firmly press the modem.
- Ideal tape application temperature range is between 21—38°C (70—100°F).

JDLink™ Navigation

JDLink™ User Guide

Select Go to Help Documentation within JDLink™ to open the User Guide. The User Guide contains detailed information about navigating and using the website.

AE77568,000047D-19-07OCT20

Operating—Service ADVISOR™ Remote

Overview

Service ADVISOR™ Remote (SAR) information in this manual is applicable to John Deere machines equipped with a compatible Generation 4 Display or GreenStar™ Display that communicates on the machine CAN bus. SAR is not compatible with every machine equipped with a JDLink™ M Modem - 4G.

Theory of Operation

Service ADVISOR™ is a diagnostic tool used to perform diagnostics and updates to machine settings and software. Certified technicians can access diagnostic trouble codes and diagnostic addresses, create readings and recordings, and program control units. This technology consists of software and hardware. Technicians attend a minimum of 8 hours of training to become certified in utilizing this tool.

SAR is a function of Service ADVISOR™ that allows a certified technician to connect to an SAR-enabled machine using the JDLink™ network to remotely access diagnostic trouble code information, record diagnostic data, and program control units.

Similar to software (payload) updates in the computer industry, SAR enables John Deere to deliver updated software remotely using onboard JDLink™ hardware. Remote programming gives John Deere the ability to update software to enhance machine performance. This capability can be used to reprogram most machine control units. The user actively participates in this process by downloading and installing the software update.

NOTE: Some machine control units may not be compatible for SAR reprogramming.

Machine Compatibility

NOTE: If equipped, Access Manager provides the capability to unlock, partially lock, or lock operator access to specific components. This includes the ability to download and install software updates.

(Refer to machine Operator's Manual for more details.)

For a current list of approved machines, contact a John Deere dealer or visit StellarSupport.com.

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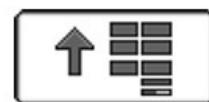
Vehicle Reprogramming



PC12691—UN—27JUL10

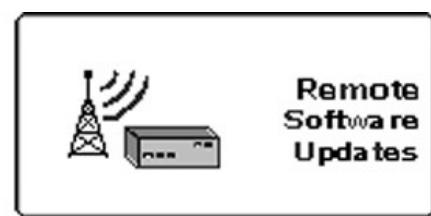
Software Update Available

SAR provides the ability to send new software to a machine to update controllers. Once the software is sent, a message will appear on the display stating that there is new software available. Pressing Accept will take the user to the software updates page.



PC8663—UN—29APR15

MENU button



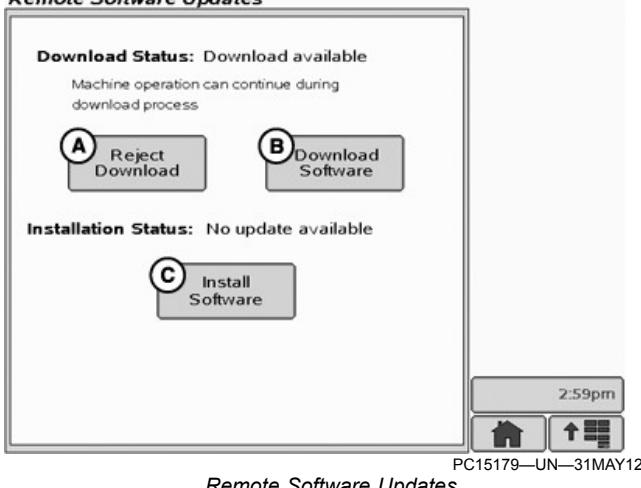
PC12671—UN—21JUL10

Remote Updates Menu Button

If the message is cancelled, the user can access the page by selecting the Menu button and then Remote Software Updates.

Download Updates

Remote Software Updates



A—Reject Download
 B—Download Software Button
 C—Install Software Button

On the Remote Software Updates page, the user can either reject (A) or download (B) the new software. Pressing the Download Software (B) button will start the download process. This process will continue in the background and normal machine operation can continue.

Install Updates



Once the software has been downloaded and it is ready for installation, a message will appear on the display. Press the accept button to go to the Remote Software Updates page.

Software installation can take up to 40 minutes. Pressing the cancel button enables you to update the software at a later time if desired.

On the Remote Software Updates page, press the Install Software button to begin the installation process.

CAUTION: Some vehicle functions, including lights, may become inoperable during reprogramming. To avoid injury, ensure the vehicle is in a safe location and configuration before reprogramming. Do not reprogram near public roadways or in active work sites.





PC12857—UN—07SEP10



PC13582—UN—09MAY11

Once prompted, accept the terms and conditions and then follow the on screen instructions.

If there is a problem during the install process, the

system will try a second install. If the second attempt fails, please contact a certified technician.

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Local Reprogramming of JDLink™ Modem in Service ADVISOR™

Service ADVISOR™ can now update JDLink™ Modem LTE firmware locally by transferring the downloaded payload through a wireless connection between the laptop and JDLink™ Modem. Although the files are transferred wirelessly, you still need a physical connection between machine and laptop using an EDL.

NOTE: JDLink™ Modem firmware updates are automatically sent to all active machines when available. Use Service ADVISOR™ to update firmware only if the device is unable to accept this update or requested by ISG DTAC teams.

NOTE: Depending on local conditions and network speed, the update can take up to 20 minutes to complete.

Requirements:

- Service ADVISOR™ local on version 5.3.110 or higher
- Connection between laptop and JDLink™ Modem using an EDL connection through the Service ADVISOR™ port on machine
- JDLink™ Modem 4G LTE must be on firmware 25.01.741 or higher
- Laptop
- Wireless must be turned on and functional

To complete the update, reference the "Service ADVISOR™ Software Programming Procedure" in technical manual.

To obtain pin, reference the "Generic Pin" section in technical manual.

Once programming is complete, check diagnostic address JDL 103 to confirm that the JDLink™ Modem is on latest firmware version.

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Troubleshooting — Reprogramming

Symptom	Problem	Solution
Accessory Power Lost	Engine started or key turned off.	Do not start engine or remove power while software updates are being installed. Turn key off and return to ON position.

Symptom	Problem	Solution
Voltage Low	The system voltage is too low to proceed with the software installation.	Turn off or remove accessories that are unnecessary.
		Check the battery voltage and, if necessary, recharge the battery.
Communication Fault	The software installation cannot be completed because of a communication fault.	Turn key off and then back to on. Then retry the software installation.
		Contact a John Deere dealer if communication cannot be established.
Remote Software Updates button is not on display.	Cannot access the Remote Software Updates page on the display.	Check harness and connections to JDLink™ M Modem - 4G.
<i>NOTE: Remote Software Updates should be available at all times, whether there is a payload or not.</i>		

BVVMSIT,0000F49-19-18MAR22

SOFTWARE TERMS AND CONDITIONS

IMPORTANT -- READ CAREFULLY: THIS SOFTWARE LICENSE AGREEMENT IS A LEGAL CONTRACT BETWEEN YOU AND THE LICENSOR ("LICENSOR") IDENTIFIED BELOW AND GOVERNS YOUR USE OF THE SOFTWARE DELIVERED TO YOUR MACHINE (THE "MACHINE").

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4.

License Fees. The license fees paid by you, if any, are paid in consideration of the licenses granted under this License Agreement.

5.

Limited Warranty. Licensor warrants, for your benefit alone and not for the benefit of any other party, that during the "**Warranty Period**" defined below, the Software will operate substantially in accordance with the applicable functional specifications ("**Specifications**") set forth in the Operators' Manuals. If, prior to expiration of the Warranty Period, the Software fails to perform substantially in accordance with the Specifications, you may return the Machine to the place of purchase for repair or replacement of the non-performing Software. The Warranty Period is ninety (90) days from the date of installation of the Software or the duration of the warranty period of the component of the Machine on which the Software is installed, whichever is longer. The Software Warranty Period does not affect the warranty period of the Machine itself or any component thereof.

6.

DISCLAIMER OF WARRANTIES. YOU HEREBY AGREE THAT THE LIMITED WARRANTY PROVIDED ABOVE (THE "**LIMITED WARRANTY**") CONSTITUTES YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY PROBLEM WHATSOEVER WITH THE SOFTWARE. EXCEPT AS PROVIDED IN THE LIMITED WARRANTY, THE SOFTWARE IS LICENSED "AS IS," AND LICENSOR, ITS AFFILIATES AND THIRD PARTY SUPPLIERS EXPRESSLY DISCLAIM AND YOU EXPRESSLY WAIVE, RELEASE AND RENOUNCE ALL WARRANTIES ARISING BY LAW OR OTHERWISE WITH RESPECT TO THE SOFTWARE, INCLUDING, BUT NOT LIMITED TO: ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE; ANY WARRANTY OF TITLE OR NON-INFRINGEMENT; AND, ANY OTHER WARRANTY ARISING UNDER ANY THEORY OF LAW, INCLUDING TORT, NEGLIGENCE, STRICT LIABILITY, CONTRACT OR OTHER LEGAL OR EQUITABLE THEORY. NO REPRESENTATION OR OTHER AFFIRMATION OF FACT INCLUDING, BUT NOT LIMITED TO, STATEMENTS REGARDING SUITABILITY FOR USE, SHALL BE DEEMED TO BE A WARRANTY BY

LICENSOR OR ANY OF ITS AFFILIATES OR THIRD PARTY SUPPLIERS. LICENSOR DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR WILL OPERATE WITHOUT INTERRUPTION.

7.

LIMITATION OF LIABILITY. EXCEPT AS SET FORTH IN THE LIMITED WARRANTY, UNDER NO CIRCUMSTANCES SHALL LICENSOR, ITS AFFILIATES OR ITS THIRD PARTY SUPPLIERS BE LIABLE TO YOU OR TO ANY THIRD PARTIES FOR DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING ANY LOSS OR DAMAGE CAUSED BY THE SOFTWARE; ANY PARTIAL OR TOTAL FAILURE OF THE SOFTWARE; PERFORMANCE, NONPERFORMANCE OR DELAYS IN CONNECTION WITH ANY INSTALLATION, MAINTENANCE, WARRANTY OR REPAIRS OF THE SOFTWARE, DAMAGES FOR CROP LOSS, DAMAGE TO LAND, LOST PROFITS, LOSS OF BUSINESS OR LOSS OF GOODWILL, LOSS OF USE OF EQUIPMENT OR SERVICES OR DAMAGES TO BUSINESS OR REPUTATION ARISING FROM THE PERFORMANCE OR NON-PERFORMANCE OF ANY ASPECT OF THIS AGREEMENT, WHETHER IN CONTRACT, TORT OR OTHERWISE, AND WHETHER OR NOT LICENSOR, ITS AFFILIATES OR ITS THIRD PARTY SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL LICENSOR'S CUMULATIVE LIABILITY TO YOU OR TO ANY OTHER PARTY FOR ANY LOSSES OR DAMAGES RESULTING FROM ANY CLAIMS, LAWSUITS, DEMANDS, OR ACTIONS ARISING FROM OR RELATING TO USE OF THE SOFTWARE EXCEED YOUR TOTAL PAYMENT FOR THE MACHINE AND FOR THE LICENSE OF THE SOFTWARE.

8.

Termination of License. Licensor may terminate the license granted under this Agreement upon written notice of termination provided to you if you violate any material term of this Agreement pertaining to your use of the Software or Licensor's rights, including, without limitation, the provisions of Sections 2 and 3 above.

9.

Compliance with Law. You agree that you will use the Software in accordance with United States law and the laws of the country in which you are located, as applicable, including foreign trade control laws and regulations. The Software may be subject to export and other foreign trade controls restricting re-sales and/or transfers to other countries and parties. By accepting the terms of this Agreement, you acknowledge that you understand that the Software may be so controlled, including, but not limited to, by the Export Administration Regulations and/or the foreign trade control regulations of the Treasury Department of the United States. Any other provision of this Agreement to the contrary notwithstanding, you agree that the Software will not be

resold, re-exported or otherwise transferred. The Software remains subject to applicable U.S. laws.

10.

Indemnification. You agree to defend, indemnify and hold Licensor, its affiliates and third-party supplier, and their, officers, directors, employees, agents, and representatives (each an "**Indemnified Party**"), harmless from and against all claims, demands proceedings, injuries, liabilities, losses, or costs and expenses (including reasonable legal fees) brought by any third party against any such persons arising from or in connection with your use of the Software, regardless of whether such losses are caused, wholly or partially, by any negligence, breach of contract or other fault of an Indemnified Party.

11.

Costs of Litigation. If any claim or action is brought by either party to this License Agreement against the other party regarding the subject matter hereof, the prevailing party shall be entitled to recover, in addition to any other relief granted, reasonable attorney fees and expenses of litigation.

12.

Severability and Waiver. Should any term of this Agreement be declared void or unenforceable by any court of competent jurisdiction, such declaration shall have no effect on the remaining terms hereof. The failure of either party to enforce any rights granted hereunder or to take action against the other party in the event of any breach hereunder shall not be deemed a waiver by that party as to subsequent enforcement of rights of subsequent actions in the event of future breaches.

13.

Language Clause. If you are a resident of Canada at the time you accept this Agreement, then the parties hereby acknowledge that they have required this Agreement, and all other documents relating hereto, be drawn up in the English language only. Les parties reconnaissent avoir demandé que le présent contrat ainsi que toute autre entente ou avis requis ou permis à être conclu ou donné en vertu des stipulations du présent contrat, soient rédigés en langue anglaise seulement. If you are a resident of any country other than the United States, Canada, Great Britain, Australia or New Zealand then you agree as follows: there may be a translated version of this Agreement. If there is an inconsistency or contradiction between the translated version and the English version of this Agreement, the English version of this Agreement shall control.

14.

Assignment by Licensor. Licensor may assign this Agreement without your prior consent to any company or entity affiliated with Licensor, or by an assignment associated with a corporate restructuring, merger or acquisition.

15.

Governing Law and Forum. This Agreement will be governed by and construed in accordance with the substantive laws identified in the table in Section 18, below. The respective courts of the venue identified in the table in Section 18, below, for the location of the Machine shall have non-exclusive jurisdiction over all disputes relating to this Agreement. This Agreement will not be governed by the conflict of law rules of any jurisdiction or the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded.

16.

Specific Exceptions.

16.1

Limited Warranty for Users Residing in European Economic Area Countries or Switzerland. If you obtained the Software in any European Economic Area country or Switzerland, and you usually reside in such country, then Section 6 does not apply, instead, Licensor warrants that the Software provides the functionalities set forth in the Operators Manuals (the "**agreed upon functionalities**") for the Warranty Period. As used in this Section, "Warranty Period" means one (1) year. Non-substantial variation from the agreed upon functionalities shall not be considered and does not establish any warranty rights. THIS LIMITED WARRANTY DOES NOT APPLY TO SOFTWARE PROVIDED TO YOU FREE OF CHARGE, FOR EXAMPLE, UPDATES, OR SOFTWARE THAT HAS BEEN ALTERED BY YOU, TO THE EXTENT SUCH ALTERATIONS CAUSED A DEFECT. To make a warranty claim, during the Warranty Period you must return, at our expense, the Software and proof of purchase to the location where you obtained it. If the functionalities of the Software vary substantially from the agreed upon functionalities, Licensor is entitled -- by way of re-performance and at its own discretion -- to repair or replace the Software. If this fails, you are entitled to a reduction of the purchase price (reduction) or to cancel the purchase agreement (rescission). For further warranty information, please contact Licensor at the address listed in Section 18.

16.2

Limitation of Liability for Users Residing in European Economic Area Countries or Switzerland.

(a) If you obtained the Software in any European Economic Area country or Switzerland, and you usually reside in such country, then Sections 7 and 10 do not apply, instead, Licensor's statutory liability for damages shall be limited as follows: (a) Licensor shall be liable only up to the amount of damages as typically foreseeable at the time of entering into this Agreement in respect of damages caused by a slightly negligent breach of a material contractual obligation and (b) Licensor shall not be liable for damages caused by a slightly negligent breach of a non-material contractual obligation.

(b) The aforesaid limitation of liability shall not apply to

any mandatory statutory liability, in particular, to liability under the German Product Liability Act, liability for assuming a specific guarantee or liability for culpably caused personal injuries.

(c) You are required to take all reasonable measures to avoid and reduce damages, in particular to make back-up copies of the Software and your computer data subject to the provisions of this Agreement.

17.

Representations of Licensee. BY ACCEPTING THIS AGREEMENT, YOU: (A) ACKNOWLEDGE THAT YOU HAVE READ AND UNDERSTAND THIS AGREEMENT; (B) REPRESENT THAT YOU HAVE THE AUTHORITY TO ENTER INTO THIS AGREEMENT; (C) AGREE THAT THIS AGREEMENT IS ENFORCEABLE AGAINST YOU AND ANY LEGAL ENTITY THAT OBTAINED THE SOFTWARE AND ON WHOSE

BEHALF IT IS USED; AND, (D) AGREE TO PERFORM THE OBLIGATIONS OF THIS AGREEMENT.

18.

Identification of Licensor and Notices. The Licensor is the entity identified in the table below. All notices to Licensor shall be sent by certified or registered mail to the corresponding address for the Licensor given below. In each case a copy of the notice shall also be sent to John Deere Intelligent Solutions Group, ATTN: Legal, 9505 Northpark Dr, Urbandale, IA 50322 USA. All notices to Licensor shall be effective upon receipt. All notices required to be given to you shall, in Licensor's sole discretion, either be sent via certified or registered mail to the address given to Licensor in connection with your purchase of the Machine. Either method of notification used by Licensor shall be effective upon dispatch. You agree to notify Licensor of any change in your address in the manner set forth above.

Place of Purchase	Address	Governing Law	Venue
United States of America	John Deere Shared Services, Inc. One John Deere Place Moline, IL 61265 USA	State of Illinois, USA	Rock Island County, Illinois, USA
Argentina	Industrias John Deere Argentina, S.A. Cassilia de Correo 80 Rosario (Santa Fe), 2000, Argentina	Province of Santa Fe, Argentina	Province of Santa Fe, Argentina
Australia or New Zealand	John Deere Limited (Australia) P.O. Box 2022 Crestmead, Queensland, Australia 4132	State of Queensland, Australia	State of Queensland, Australia
Canada	John Deere Limited 295 Hunter Road P.O. Box 1000 Grimsby, ON L9K 1M3	Province of Ontario, Canada	Province of Ontario, Canada
Chile	John Deere Water, S.A. Cerro Santa Lucia 9990 Quilicura, Santiago, Chile	Province of Santiago, Chile	Province of Santiago, Chile
Mexico	Industrias John Deere, S.A. de C.V. Boulevard Diaz Ordaz #500 Garza Garcia Nuevo Leon 66210, Mexico	State of Nuevo Leon, Mexico	State of Nuevo Leon, Mexico
Europe	John Deere European Technology and Innovation Center Strassburger Allee 3 67657 Kaiserslautern, Germany	Federal Republic of Germany	Kaiserslautern, Germany
Other	The John Deere entity identified for the location of your Machine on www.JDLink.com .	The John Deere entity identified for the location of your Machine on www.JDLink.com .	The John Deere entity identified for the location of your Machine on www.JDLink.com .

Specifications

Electrical Specifications

JDLink™ M Modem - 4G and Satellite Module

- Input Voltage—The voltage range for switched and unswitched power is 9—32 V DC.
- Fuse Recommendation—The device should be protected with a 10 A fuse maximum.

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Ethernet Switch Operating Voltage

Ethernet Switch Operating Voltage	
Rated Voltage Range	12—24 V DC
Minimum Voltage Range	9 V DC
Maximum Voltage Range	32 V DC

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John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Publications are available in print or CD-ROM format.

Orders can be made using one of the following:

- John Deere Technical Information Store: www.JohnDeere.com/TechInfoStore
- Call 1-800-522-7448
- Contact your John Deere dealer

Available information includes:



TS189—UN—17JAN89

PARTS CATALOGS list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.



TS191—UN—02DEC88

OPERATOR'S MANUALS providing safety, operating, maintenance, and service information.



TS224—UN—17JAN89

TECHNICAL MANUALS outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in a separate component technical manual.



TS1663—UN—10OCT97

EDUCATIONAL CURRICULUM including five comprehensive series of books detailing basic information regardless of manufacturer:

- Agricultural Primer series covers technology in farming and ranching.
- Farm Business Management series examines "real-world" problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
- Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
- Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.
- Fundamentals of Compact Equipment manuals provide instruction in servicing and maintaining equipment up to 40 PTO horsepower.

DX,SERVLIT-19-07DEC16

John Deere Service Keeps You On The Job

John Deere Parts



TS100—UN—23AUG88

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

That's why we maintain a large and varied inventory—to stay a jump ahead of your needs.

DX,IBC,A-19-04JUN90

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!

DX,IBC,C-19-04JUN90

Prompt Service



TS103—UN—23AUG88

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances: see us, depend on us.

JOHN DEERE SERVICE SUPERIORITY: We'll be around when you need us.

DX,IBC,D-19-04JUN90

The Right Tools



TS101—UN—23AUG88

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly . . . to save you time and money.

DX,IBC,B-19-04JUN90

Well-Trained Technicians



TS102—UN—23AUG88

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