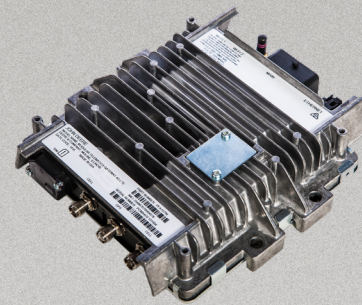


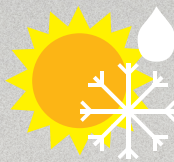
MTG 4G LTE



The Modular Telematics Gateway integrates GNSS, mobile connectivity and on-board machine communications via CAN, Ethernet, and RS-232. It's ideally suited for advanced telematics applications such as machine health monitoring, advanced logistics, and remote diagnostics.



Storage: 8GB
onboard flash



Designed and tested to
extreme environments



Supports LTE with fallback to 3G
and 2G cellular communication



Supports 12V and
24V systems

yocto
PROJECT

Open source created with
Yocto Project® software*



Supports multiple SIM options:
- Internal soldered SIM IC
- External accessible Micro-SIM
- Combination of internal and
external SIM



Wireless and Bluetooth®
communication



Certified in over
70 countries

*Linux® and Yocto Project® are registered trademarks of the Linux Foundation.
Linux® is a registered trademark of Linux Benedict Torvalds.

MTG 4G LTE Specifications

Processor / OS

1.33 GHz Intel® Atom™ CPU
Real-Time clock
Custom Embedded Linux® OS created via Yocto Project®

Software

Operating System: Yocto Linux Distribution
Extensible Yocto SDK
Bootloader: U-Boot

An implementation review is recommended to verify compatibility to planned use cases

Memory

RAM: 1GB DDR3
Flash: 8GB e-MMC

Diagnostic Tools

Integrated Status LED
Internal diagnostics available

Mechanical

Metallic IP67 enclosure
Device-side connectors
Header: Molex CMC 48-way
Ethernet: 12 pin HSAutolink™ II
Cell antennas (2): 50 ohm female TNC
GNSS antenna: 50 ohm female RP-TNC
Wi-Fi 1 antenna: 50 ohm SMA
Wi-Fi 2 antenna: 50 ohm Reverse Polarity SMA
Dimensions: 215 x 205 x 51 (mm)
Weight: 1.45 kg (3.2 lbs.)

Environmental

-40°C to +75°C operating
Vibration: 10.6 Grms, 10 Hz–2 kHz
Shock: 85G
Humidity: 40°C @ 95% RH
Dust, particle impact, immersion, and high-pressure 5000 psi spray tested

Communications

Cellular and GNSS modem
North American Modem
Quad Band LTE: 700/850/AWS (1700/2100)/1900 MHz
FDD-Band (17,5,4,2)
Tri Band UMTS (WCDMA): 850/AWS (1700/2100)/1900 MHz
FDD-Band (5,4,2)
Quad Band GSM/GPRS/EDGE: 850/900/1800/1900 MHz
European plus others
Penta Band LTE: 800/900/1800/2100/2600 MHz
FDD-Band (20,8,3,7,1)
Tri Band UMTS (WCDMA): 900/1800/2100 MHz
FDD-Band (8,3,1)
Dual Band GSM/GPRS/EDGE: 900/1800 MHz
Internal soldered SIM IC
External accessible Micro-Sim Card (optional)

Wireless and Bluetooth®

2.4 & 5 GHz w/ MIMO
Supports IEEE 802.11 a/b/g/n
Bluetooth® 4.0 BLE

Electrical Safeguards

Transient protection per Industry Standard
ESD Protection
8 kV contact, 25 kV air discharge
Short to battery/ground protection on all primary connector pins
Reverse battery, load dump, jump start protection

Regulatory

US / Canada: FCC (tested to Part 15b), PTCRB, AT&T certification, Industry Canada
Europe: CE, E mark
Australia/New Zealand
Extensive list of additional country approvals

Contact us at ElectronicSolutions@JohnDeere.com



JOHN DEERE