

# John Deere Connectivity Family

## Summary

The Modular Telematics Gateway integrates GNSS, mobile connectivity and onboard 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.

## Features of the product family

- Extensive list of country certifications
- Wireless and Bluetooth® communication
- Designed and tested to extreme environments
- Supports 12V and 24V system
- Capable of being configured by mobile app
- Onboard diagnostics and over-the-air programmable
- CAN bus DTCs
- WiFi meshing\* – Track your fleet. Capture data on multiple machines and send back to user's mobile device.

*\*Feature coming soon! Capable on all modules except Smart Connector*



Operational	M-Modem	R-Modem
System Voltage	12V/24V (9V-32)	12V/24V (9V-32)
Machine Interface Connector	CMC 48-Way	CMC 48-Way
<b>Processing and Memory</b>		
Microprocessor	i.MX8DXL	i.MX8DXL
RAM	1GB/DRAM	1GB/DRAM
Flash	32GB/eMMC	32GB/eMMC
<b>Vehicle Communication</b>		
CAN	2 Channel ISO11783/J1939 CAN FD capability	2 Channel ISO11783/J1939 CAN FD capability
Serial Ports	1	1
Ethernet	100BASE-T1	10/100BASE-Tx
USB	N/A	N/A
<b>Wireless Interfaces</b>		
Cellular	LTE CAT4 with/2/3G fallback, internal antenna	LTE CAT4 with/2/3G fallback, external antenna
GNSS	Yes	Yes
Wi-Fi	2.4 / 5.0 GHz	2.4 / 5.0 GHz
Bluetooth	V4.2	V4.2
<b>Environmental</b>		
Operating Temp	-40°C to 75°C	-40°C to 75°C
Storage Temp	-40°C to 85°C	-40°C to 85°C
<b>Mechanical</b>		
Sealing	IP69	IP67
Dimensions	145 x 145 x 44	241 x 160 x 43
<b>Regulatory</b>		
	U.S./Canada: FCC (tested to Part 15b), PTCRB, AT&T certification, Industry Canada Verizon (VZW) Europe: CE, E mark Australia/New Zealand Extensive list of additional country approvals	U.S./Canada: FCC (tested to Part 15b), PTCRB, AT&T certification, Industry Canada Verizon (VZW) Europe: CE, E mark Australia/New Zealand Extensive list of additional country approvals

# Summary

The Smart Connector (CAN to Bluetooth Wireless Gateway) integrates Bluetooth® Low Energy (BLE) with on-board CAN communications. The Smart Connector is intended to take information available on the communications bus and publish it to a user's mobile device. It is environmentally sealed and rigorously tested to ensure long life and performance in the most demanding environmental conditions.

## Features of the product family

- FCC and Emark certifications
- Wireless and Bluetooth® communication
- Designed and tested to extreme environments
- Supports 12V and 24V system
- Capable of being configured by mobile app
- Onboard diagnostics and over-the-air programmable
- CAN bus DTCs



Operational	
System Voltage	9V-16V
Machine Interface Connector	MX150
Processing and Memory	
Microprocessor	48 MHz ARM M0 CPU OPEN RTOS®
RAM	1GB/DRAM
Flash	64 KB RAM 512 KB internal flash 16 MB SPI flash
CAN	J1939
RS232	1
Wireless Interfaces	
Bluetooth	V4.2
Environmental	
Operating Temp	-40°C to 85°C
Storage Temp	-55°C to 105°C
Mechanical	
Sealing	IP69
Dimensions	78 x 73 x 43
Regulatory	
	U.S./Canada: FCC (tested to Part 15b), PTCRB, AT&T certification, Industry Canada Europe: E mark RED Australia/New Zealand



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