

JANUS REMOTE COMMUNICATIONS

Embedded Cellular XF Footprint LTE910XF v20.00 CAT-M1/NB2 Embedded Modem

Description

The Janus line of “X” Footprint (XF) embedded modems are footprint compatible cellular modems for use in LTE communication networks globally. They are carrier “end device certified” with industry standard 20-pin headers that are easily integrated into new and existing designs.

The LTE910XF v20.00 CAT-M1/NB2 embedded modem uses the Telit ME910G1-WW as its cellular engine and has global PTCRB, AT&T, Verizon and RED certifications. The LTE910XF v20.00 units operate in CAT-M1/NB2 LTE 4G and 2G bands (see below).

Technical Specifications

Form Factor

Industry Standard 20-Pin Connector Interface
PCB Mount
1.14” x 1.3” x 0.256”

Approvals

Regulatory: FCC, ISED, PTCRB
Carrier: PTCRB, AT&T, Verizon and RED certifications;

Temp Range: -40°C to 85°C

Input Voltage: 3.4 to 5.5Vdc

Data Rate:

LTE Cat M1 (Rel. 14)
• Uplink up to 1 Mbps
• Downlink up to 588 Kbps

LTE Cat NB2 (Rel. 14)
• Uplink up to 160 Kbps
• Downlink up to 120 Kbps

EGPRS (2G fallback variants)
• Uplink up to 210 Kbps
• Downlink up to 264 Kbps

Frequency Bands

LTE 4G Bands: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B71, B85
2G Bands: 850, 900, 1800, 1900

Interface:

UART & USB
Internal TCP/IP stack available via AT commands
Use external stack with CDC-ACM and ECM drivers.
Supports RmNet for commands only (no data).

SIM Card: 3FF Micro

Antenna Connections: Cellular and GPS

Warranty: One year standard

Applications

- Fleet Management
- Asset Tracking
- Security Systems
- Telemetry
- Telematics & Telecontrol
- Remote Monitoring Systems
- Remote Meter Reading
- Vending Machines



The LTE910XF v20.00 modems are part of the CellBridge™ Janus Products.

CellBridge™

Features

- Industry Standard 20-Pin Connector Footprint
- 2 U.FL port for antenna diversity
- Easy migration path, future-proof
- Development kits available

Advantages

- Approvals: PTCRB, AT&T, Verizon and RED certifications
- Migration path to new LTE Bands

Telit OneEdge® Availability

Telit offers ME910G1 with OneEdge, a software suite integrated with deployment and management tools to address the complexity expected with the exponential growth in the number of IoT devices. The following components include:

- **Lightweight M2M protocol** enables comprehensive device management, FOTA updates and application enablement of low-power devices with the goal of more robust and secure connections.
- **Telit simWISE™**, a module-embedded SIM technology, enables reduced footprint, streamlined manufacturing and logistics, secure communications for connected devices.
- **Telit IoT AppZone** can run code and applications directly inside the Telit module.
- **Telit's Connection Manager** automates operations for connection to cellular networks.
- **Location services** provide the position of devices even in the absence of a GNSS connection.

Telit ONEEDGE™



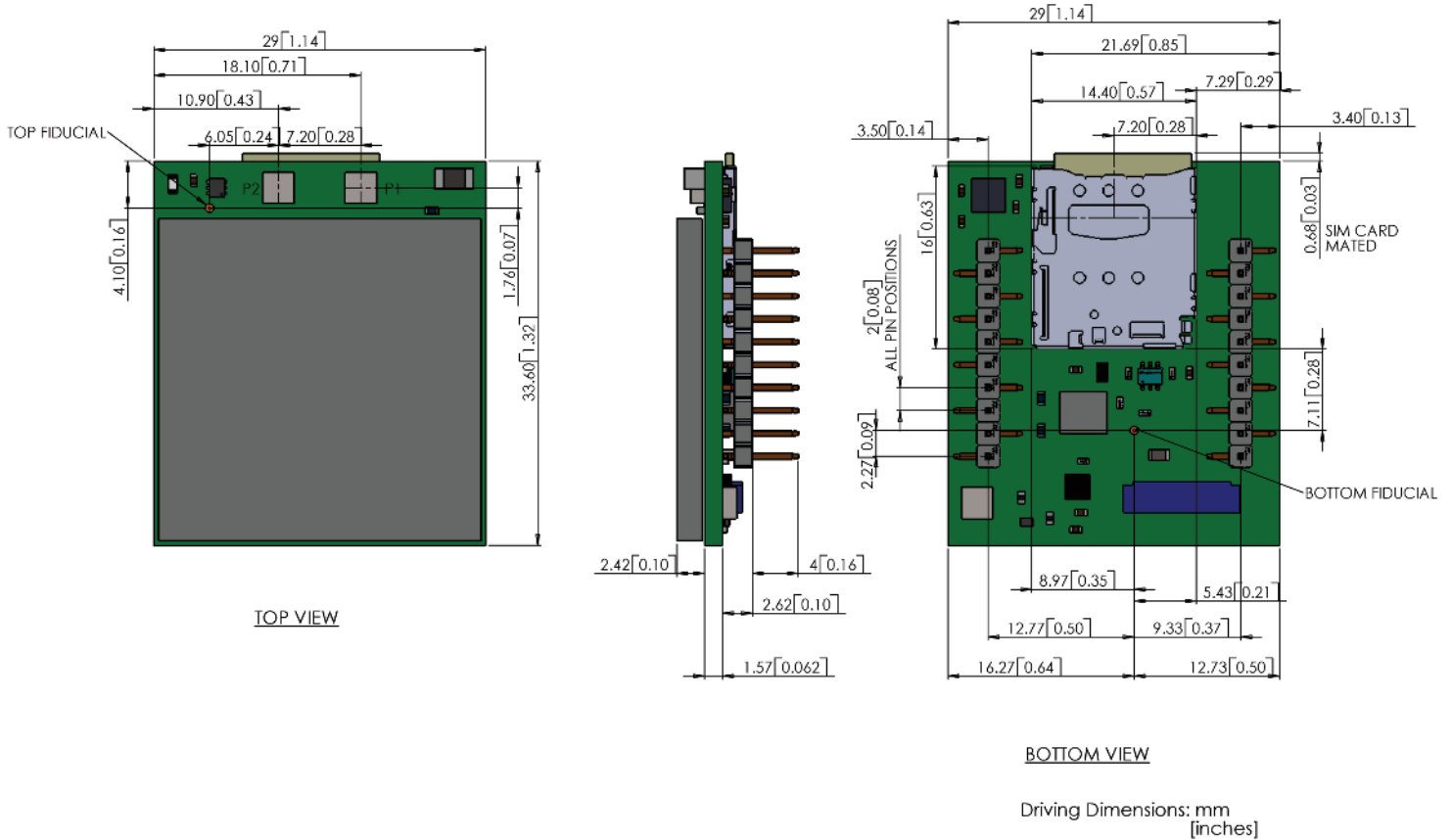
Making machines talk.

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Bulletin **JA20-PB_LTE-v20**
Revision **07**
Date **14 March 2023**

LTE910XF v20.00 CAT-M1/NB2 Mechanical Drawing



Ordering Information

LTE910XF	V2000	T	X	H	3	S
Cellular Terminal LTE LTE910XF	Carrier Certified & Version LTE v20.00 CAT-M1	Modem Provider T = Telit	Firmware * Call Sales Rep for most recent firmware version.	SIM Holder H = Mech Holder	SIM Size 3 = 3FF Micro	Power S = Standard Power

Example: Part Number – LTE910XFV2000TBH3S = LTE Cellular XF Embedded Modem; Telit Modem; Current Firmware; Mech SIM Holder; SIM Card Size 3FF; Standard Power

Contact Sales for Additional Special Order Options: Bill Borton: bborton@janus-rc.com | 630-499-2121

Revision History

Revision	Revision Date	Note
00	04/22/20	Initial Release
01	11/04/20	SIM Card Info Updated
02	03/16/21	Updated Mechanical Drawing
03	06/08/21	Updated Specifications, Mechanical Drawing and Ordering Information
04	08/10/21	Updated Interface Specifications
05	12/09/21	Updated Certification Approvals
06	02/01/22	Edited copy
07	03/14/23	Updated Contact Information

JANUS REMOTE
COMMUNICATIONS

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