

JANUS REMOTE COMMUNICATIONS

PRODUCT BRIEF

CF Plug-In Series EVDO910CF Embedded 3G Cellular Modem

Description

The Janus line of Common Footprint (CF) Plug-In modems are footprint compatible, GPS enabled, plug-in terminals for use in GSM/GPRS, EDGE, CDMA, EV-DO, HSPA+, LTE communication networks, and also Wi-Fi connectivity. They were specifically designed to provide customers with cost effective products that are easily integrated into new and existing designs, require limited customer certification resources, and are completely interchangeable to allow for maximum network flexibility while removing the worry of product obsolescence.

The EVDO910CF Plug-In modem incorporates Telit's DE910 dual-band module as its cellular heart. The unit operates in the 1xEV-DO and 1xRTT bands, defaulting to the appropriate network. It is pin compatible with the full line of Janus Plug-In Terminal products.

The EVDO910CF is the 1xEV-DO communication modem of the Plug-In series. This 3G modem provides M2M communication over EV-DO networks.

EVDO910CF Features

- 1xEV-DO (Rev. A) 3.1D/1.8U Mbps
CDMA2000 1xRTT 153D&U kbps
- Dual Band CDMA2000 1x RTT, 1xEV-DO Rev. A 800/1900 MHz
- TCP/IP stack access via AT commands
- SMS (MO / MT)
- Output power
 - 24.4dBm @ 1x RTT
 - 24dBm @ 1x EV-DO
- Dimensions: 2.5" x 1.4" x 0.325"
- Through hole for screw mount
- Operational temperature range: -40°C to 85°C
- Internal Switching Regulator:
 - Input Voltage Range: 4.75 to 5.25Vdc (5Vdc nominal)
 - Supply disable via terminal input pin
- Cellular, Rx Diversity, and GPS available via Murata GSC miniature RF connector
- GPS
 - Stand alone GPS available at AT command interface
 - NMEA data
 - Dedicated GPS antenna connection with active antenna support



Applications

Suitable for all M2M Applications

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

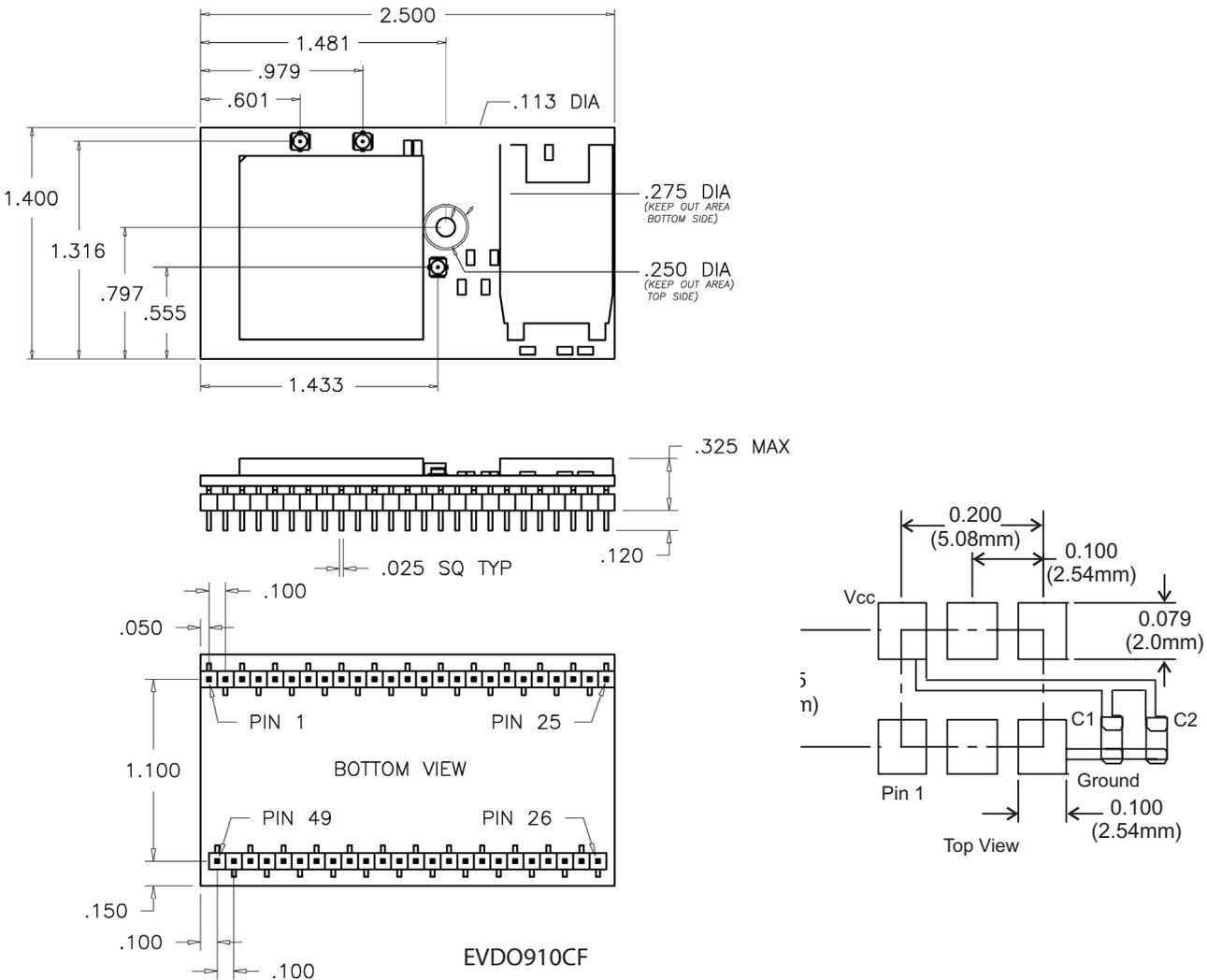
2359 Diehl Road
Aurora, IL 60502
630.499.2121
info@janus-rc.com
www.janus-rc.com

Bulletin **JA03-PB_EVDO**
Revision **01**
Date **12 April 2017**



Making machines talk.

EVDO910CF Mechanical Drawing



Ordering Information

EVDO910CF	V200	T	A	G	F	N
Cellular Terminal EV-DO EVDO910CF	Carrier Certified & Version EV-DO V200 = Sprint V300 = Verizon V400 = Aeris	Modem Provider T = Telit	Firmware A = Standard	Connector G for GSC U for U.FL	Voltage F = Fixed V = Variable <i>Note 1</i>	Config Options N = No Config P = Positioning A = Activation S = SIM <i>Note 2</i>

Example: Part Number – **EVDO910CFV200TAGFN** = EV-DO Cellular Plug-In Terminal; Sprint Certified; Telit Modem; Standard Firmware with a GSC Connector with a Fixed Voltage with no configuration options.

Notes:

- The original Plug-In products have a fixed interface voltage of 2.85 V. The UART, TRACE, PWRMON, and GPIO pins 3-7 operate at an I/O interface level of 2.85 V. The DC bias on the GPS antenna is 2.85 V, and Vaux (pin 48) provides a 2.85 V source of up to 100mA when the cellular radio is enabled, e.g. when PWRMON is high. The new version allows the option of a variable (user specified) interface voltage. The former USB_ID pin 30 is now designated as VL_IN and serves as a reference to set the interface voltage. If this pin is left unconnected, the modules will behave the same as the original version and maintain the 2.85 V levels on the affected signals. If the user applies a voltage level to the VL_IN pin between 1.8 V and 5.0 V, then the affected signals will operate at that VL_IN voltage level. If an original 910CF board is used in a circuit design that supports the new VL_IN pin by applying a voltage to that pin, it will still operate at 2.85 V levels. If a new version board is used in a circuit designed to support the original board, it will behave identically to the original board with 2.85 V levels as long as there are no connections made to pin 30. If external circuitry is connected to pin 30, contact Janus to evaluate the design.
- Config Options: Provisioning is turning on a device on the network. Activation is assigning MEID's to a customer account. SIM designation is for installation of the SIM

Contact Sales for Additional Special Order Options: Dave Jahr: djahr@janus-rc.com | 630-499-2121



Making machines talk.

Division of The Connor-Winfield Corporation
2359 Diehl Road • Aurora, IL 60502
630.499.2121 • info@janus-rc.com
www.janus-rc.com

© Copyright 2017 Janus Remote Communications. All Rights Reserved
Specifications subject to change without notice
See website for latest revision. Not intended for life support applications.