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JANUS REMOTE COMMUNICATIONS

CF Plug-In Series HSPA910CF Embedded 3G Cellular Modem

Description

The Janus line of Common Footprint (CF) Socket Modems are footprint compatible, embedded cellular devices for use in LTE communication networks. They were specifically designed to provide customers with cost effective modules 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 HSPA910CF v1.00 CF Plug-In modem incorporates Telit's HE910 penta-band module as its cellular heart. The unit operates in the GSM, GPRS, EDGE, UMTS, or HSPA+ bands, defaulting to the appropriate network. It is pin compatible with the full line of Janus Plug-In Terminal products.

The HSPA910CF v1.00 is one of the HSPA+ communication modem of the Plug-In series. This 3.5G modem provides M2M communication over HSPA networks and the HSPA910CF v1.00 is AT&T Certified.

HSPA910CF Features

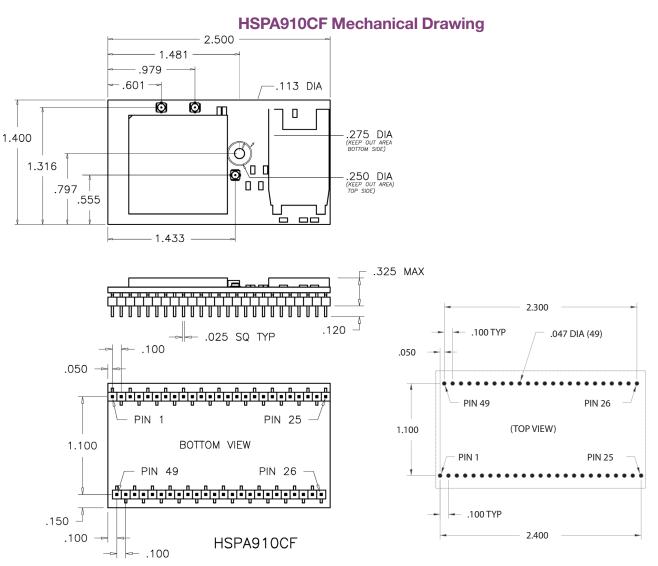
- HSDPA 21.0D/5.76U Mbps
- Penta-Band HSPA+
- GSM Quad Band 850, 900, 1800, 1900 MHz
- UMTS/HSPA Penta-Band 850, 900, 1700, 2100 MHz
- EGPRS / WCDMA / HSDPA / HSUPA
- TCP/IP stack access via AT commands
- SMS (MO / MT)
- Output power
- Class 4 (2W, 33 dBm) @ GSM 850 / 900
- Class 1 (1W, 30 dBm) @ GSM 1800 / 1900
- Class 3 (0.25W, 24 dBm) @ UMTS
- Class E2 (0.5W, 27 dBm) @ EDGE 850 / 900
- Class E2 (0.4W, 26 dBm) @ EDGE 1800 / 1900
- 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
- SIM Card
 - Locking SIM card socket, Mini (2FF size) SIM
 - Or, optional SIM on a chip
- 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





Ordering Information

HSPA910CF	V100	Ţ	A	G	_ F	N
Cellular	Carrier Certified & Version	Modem Provider	Firmware	Connector	Voltage	Config Options
Terminal HSPA+ HSPA910CF	HSPA V100 = AT&T	T = Telit	A = Standard	G for GSC U for U.FL	F = Fixed V = Variable <i>Note 1</i>	

Example: Part Number – HSPA910CFV100TAGFN = HSPA+ Cellular Plug-In Terminal; AT&T Certified; Telit Modem; Standard Firmware with a GSC Connector with a Fixed Voltage with no configuration options.

Notes:

1. 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 UCRT, 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 a 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.

2. 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



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