

PRODUCT CHANGE NOTIFICATION (PCN)

Number: 1601-1

Date: 4/1/2016

From: Dave Jahr

Product Family: Common Footprint Plug-In Terminus (GSC/U.FL change)

Effective Date:10/1/2016

Reason for Change:

Janus Common Footprint Plug-In modems will implement a connector component change to the circuit assembly due to an End-Of-Life (EOL) with the current GSC antenna connectors.

Change Category: Change in Existing Product Component Parts.

Executive Summary: A connector change will be implemented due to the End-of-Life of the Murata brand GSC connector, used as antenna connectors on Janus Plug-In Terminus modems. The current Murata GSC connectors will be changed to a GSC compliant connector, MCF connector manufactured by Sunridge Corporation.

Component: Murata GSC connectors will be changing to Sunridge MCF (GSC compliant) connectors.

Current Products Affected:

1. CDMA910CF v2.00
2. CDMA910CF v3.00
3. EVDO910CF v2.00
4. EVDO910CF v3.00
5. HSPA910CF v1.00

Details and Effect on Product Performance: No impact to product performance.

Change Impact: Product ordering Part Numbers will change as specified below. New product documentation will be available under the "Products" section of the Janus website (www.janus-rc.com) under "Plug-In Terminus."

1. CDMA910CFV200TAGFN (Sprint)
2. CDMA910CFV300TAGFN (Verizon)
3. EVDO910CFV200TAGFN (Sprint)
4. EVDO910CFV300TAGFN (Verizon)
5. HSPA910CFV100TAGFN

PRODUCT CHANGE NOTIFICATION (PCN)

Number: 1601-1
Date: 4/1/2016
From: Dave Jahr
Product Family: Common Footprint Plug-In Terminus
Effective Date:10/1/2016

CHANGE OVER PROCESS: All products will be converted as of 6/1/2016.

ALTERNATIVE CONNECTOR CHANGE: Customers will also have the option to switch from Murata GSC connectors to Hirose U.FL connectors on their current and new designs. This change can be accomplished under the same time schedule as stated above.

Current Products Affected:

1. CDMA910CF v2.00
2. CDMA910CF v3.00
3. EVDO910CF v2.00
4. EVDO910CF v3.00
5. HSPA910CF v1.00

Change Impact: Product ordering Part Numbers will change as specified below. New product documentation will be available under the "Products" section of the Janus website (www.janus-rc.com) under "Plug-In Terminus."

1. CDMA910CFV200TAUFN (Sprint)
2. CDMA910CFV300TAUFN (Verizon)
3. EVDO910CFV200TAUFN (Sprint)
4. EVDO910CFV300TAUFN (Verizon)
5. HSPA910CFV100TAUFN

SUPPLEMENTAL PRODUCT INFORMATION – PCN Number: 1601-1

In addition to the updated antenna connector information, Janus is making available the following information regarding our new generation of Plug-In modems. The newest members of the Janus Common Footprint Plug-In modem family are the HSPA910CF v2.00, LTE910CF v1.00 (AT&T) and LTE910CF v3.00 (Verizon). These products come standard with new features and functions. These features and functions are available to previous designs under new part numbers. A description of the new features and functions follows:

The original CDMA910CF, EVDO910CF, and HSPA910CF 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 an 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.

New part numbers are now available for customers wanting to switch to the variable voltage design.

Current Products Affected:

- 1. CDMA910CF v2.00**
- 2. CDMA910CF v3.00**
- 3. EVDO910CF v2.00**
- 4. EVDO910CF v3.00**
- 5. HSPA910CF v1.00**

Change Impact: Product ordering Part Numbers will change as specified below. New product documentation will be available under the “Products” section of the Janus website (www.janus-rc.com) under “Plug-In Terminus.”

- 1. CDMA910CFV200TAUVN (Sprint)**
- 2. CDMA910CFV300TAUVN (Verizon)**
- 3. EVDO910CFV200TAUVN (Sprint)**
- 4. EVDO910CFV300TAUVN (Verizon)**
- 5. HSPA910CFV100TAUVN**

PRODUCT CHANGE NOTIFICATION (PCN)

Number: 1601-1
Date: 4/1/2016
From: Dave Jahr
Product Family: Common Footprint Plug-In Terminus
Effective Date:10/1/2016

Janus Contact Person: Dave Jahr, General Manager, Telephone: 630-499-2124

CUSTOMER RESPONSE

This PCN requires customer notification. Use this form if necessary to respond and direct to the attention of the contact person at Janus Remote Communications.

If Unacceptable, Explain:

Customer Contact Information:

Name: _____

Company: _____

Telephone: _____

Email: _____