

# JANUS REMOTE COMMUNICATIONS

## PRODUCT BRIEF

### POTSwap

#### Description

The POTSwap allows landline telephones and modems to replace their POTS (plain old telephone service) connection with a wireless cellular connection. An internal landline modem allows legacy dial-up modem equipment to connect to remote TCP/IP networks. Fixed location voice applications can connect directly to the PSTN (Public Switched Telephone Network). Both dial-in and dial-out data and voice applications are supported.

An FXS connection (RJ11 jack) provides complete Central Office emulation including dial tone, ringing and busy signal generation as well as DTMF detection and generation. The POTSwap emulates all the functions of a wired telephone connection, is fully compatible with all common modem standards and can be configured to emulate international telephone line standards. Configuration of the POTSwap can be achieved via a local serial interface connection.

Wireless connectivity is provided by the Janus line of Plug-In Terminus modems which are available for a variety of wireless carriers. Support is available for GSM/GPRS, CDMA-1xRTT, EDGE, UMTS, HSPA+ and EVDO wireless networks.



#### Features

- Supports all 2G and 3G network standards
- Wide range of modem support (Bell 103 through V.92)
- ARM Cortex-M3™ processor
- Firmware upgrade support
- Flexible power supply options
- Rugged aluminum enclosure

#### Applications

- Security systems
- Call stations
- POS terminals
- Building automation
- ATM machines
- Utility meters
- Remote diagnostics
- Vending machines
- Telemetry and telecontrol



#### POTSwap Ordering

POTSwap Model	Description
HSPA910PS v1.0	HSPA+/UMTS/EDGE/GPRS/GSM
EVDO910PS v3.0	EV-DO (Verizon) (coming soon)

2111 Comprehensive Drive  
Aurora, Illinois 60505  
**630.499.2121**  
Fax: 630.851.5040  
www.janus-rc.com

Bulletin **JA16-PB**  
Revision **01**  
Date **29 April 2014**

## Specifications

### Interfaces

Modem/Telephone	RJ11 FXS
Serial	DB9 female DCE -- user terminal interface for configuration and firmware upload.
Cellular Antenna	SMA
GPS Antenna	MCX (optional)
Power Input	7-15 Vdc; 22W with two input alternatives: 6mm DC power jack with 2mm center pin positive 5.08mm (0.200") terminal header (accepts screw clamp and crimp connector type terminal blocks)

### Features

SLIC	Performs all BORSCHT functions DTMF encoding and decoding REN=5 at 100 ft. (30m)
Data Conversion	Converts between modem analog/PSTN data and IP/packet data
Voice	Voice over cellular
Data Routing	Modem dialing information translation includes: Fixed IP address; Phone number to IP address translation, Phone number forwarding to IP address for routing. Secure IP options available.
Cellular Connection	Supports Terminus Plug-In cellular modems, with support for GSM/GPRS, CDMA- 1xRTT, EDGE, UMTS, HSPA+ and EVDO
Mounting	Integrated mounting brackets (optional)
Modem Features	300bps to 56kbps; Bell 103 and 212a; ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34, V.90 and V.92 compatible.
Pushbuttons	SELECT, MODE and RESET
LEDs	Power, Status, Cellular Link and Signal Strength
Dimensions (L x W x D)	6.5 in (165mm) x 4.3 in (109mm) x 1.2 in (30mm)
Weight	15 oz (425 g)

### Environmental

Operating Temperature	-40° C to +60° C (-40° F to 140° F) <i>(Note: Operation below -25°C requires use of terminal header for power input)</i> <i>(Note: Operating temperature may be limited by specific cellular module choice)</i>
Relative Humidity	5% to 95% (non-condensing)

## POTSwap Connectivity

