

JANUS REMOTE COMMUNICATIONS

PRODUCT BRIEF

LTE910PS POTSwap™ Premium Kit

Description

The Janus POTSwap allows users to replace analog (copper) phone lines, also called POTS (plain old telephone service) or PSTN (public switched telephone network), with a cost-competitive POTSwap unit and cellular voice and data plans. The POTSwap converts your fixed location landline devices to cellular enabled fixed or mobile implementations.



Installing a POTSwap is the easiest way to switch legacy equipment from traditional phone landlines to a 4G LTE network. The existing phone line is connected directly to POTSwap. Simply unplug the telephone jack from its wall outlet and plug it into the POTSwap's RJ11 socket. Insert the appropriate SIM card into the back panel of the unit.

Integrating Telit's LE910C1-NF LTE module as their cellular engine, the LTE910PS POTSwap units operate in LTE bands 2, 4, 5, 12, 13, 14, 66, and 71. North American carriers include: AT&T and Verizon. Rogers, Bell and Telus versions will be available soon for Canadian customers.

Janus POTSwap Premium Kits offer customers a POTSwap unit and accessories that assist in protecting the POTSwap from electrical damage caused by lightning strike or other environmental issues and are more appropriate for challenging installations.

Included in the Premium Kit:

- (1) LTE910PS POTSwap (Version chosen by customer)
- (1) AC/DC Wall Adapter 12V 24W
- (1) 3-in-1 LTE MIMO/GNSS Antenna with SMA connector – 6'
- (3) Lightning Arrestors SMA Jack to SMA Bulkhead
- (3) 18" Patch Cable SMA to SMA
- (1) Grounding Wire 12AWG stranded, Green 30ft
- (1) Quick Start Guide Documentation

Approvals:

- Regulatory Approvals:
PTCRB
FCC ID: R17LE910CxNF
ISED Canada: 5131A-LE910CxNF
Conforms to:
UL 62368-1
CSA C22.2#62368-1
- Carrier Approvals: AT&T & Verizon
Check with Janus if you require any specific carriers not identified.
- ASME A17.1 Compliant *When used with an ASME A17.1 Compliant Emergency Telephone System
- RoHS Compliant

Features

- Supports 4G Network Standards
- Wide operating temperature range
- ARM Cortex-M3™ processor
- Firmware upgrade support
- Flexible power supply options ^{✓ RoHS}
- Rugged aluminum enclosure

Applications

- Emergency phone kiosks
- Broadcast trucks
- Marine telephones
- Mobile office trailers
- Elevator telephones
- Public School Districts

POTSwap Connectivity



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Bulletin **JA16-LTE-PB PK**
Revision **05**
Date **01 Sept 2022**



Making machines talk.

POTSwap™ Premium Kit

Specifications

Interfaces

Parameters	Description
Modem/Telephone	RJ11 connector (FXS)
Serial CONFIG	USB Mini -- user terminal interface for configuration and firmware upload.
Cellular Antenna	50 ohm SMA
GPS Antenna	50 ohm SMA w/ 3.3V GPS bias
Power Input	7-15 Vdc; 12W with two input alternatives: 6mm DC power jack with 2mm center pin positive 5.08mm (0.200") terminal block header (accepts screw clamp and crimp connector type terminal blocks) At 12 Vdc, nominal on-hook current is <100 mA; off-hook call-in-process current is 100-200 mA. Sub-millisecond events exceeding 500 mA can occur when cellular radio is transmitting. A 12 Vdc 1A supply minimum is recommended.

Features

Parameters	Description
SLIC	Performs all BORSCHT functions: Battery supply to subscriber line Over voltage protection Ringing current supply Supervision of subscriber terminal Coder and decoder Hybrid, 2 wire to 4 wire conversion Testing DTMF encoding and decoding REN=1 at 100 ft. (30m)
Voice	VoLTE (4G) and Voice over cellular (3G fallback)
Cellular Connection	4G (LTE) bands 2, 4, 5, 12, 13, 14**, 66 and 71. Plus 3G (fallback) bands 2, 4 and 5.
SIM Card	Micro (3FF size) SIM Card
Push Buttons	MODE, RESET
LEDs	Power, Status, Cellular Link, GPS and Signal Strength
Dimensions (L x W x D)	6.0 in (152mm) x 5.2 in (132mm) x 1.2 in (30mm)
Weight	13 oz (365 g)
Mounting	Integrated mounting brackets

** Band 14 may not be available on some models shipped prior to July 2021. The POTSwap is not certified for operation on FirstNet.

Environmental

Parameters	Description
Operating Temperature	-40° C to +60° C (-40° F to 140° F) <i>(Note: Operating temperature may be further limited by specific Plug-In Terminus terminal)</i>
Relative Humidity	5% to 95% (non-condensing)

LTE POTSwap™ Ordering Information

POTSwap Model	Description
LTE910PS V1.00 TCUVNULB Premium Kit	AT&T Premium Kit - UL Certified - Barrel Connector
LTE910PS V3.00 TCUVNULB Premium Kit	Verizon Premium Kit - UL Certified - Barrel Connector

* Note: Also available with a Terminal Connector - Contact Sales

LTE POTSwap™ Carrier Certifications and Regulatory Approvals

The POTSwap includes several cellular carrier and regulatory approvals and certifications, as stated in our Product Briefs, User Manuals, and other documentation. *Ultimately, the customer is responsible for ascertaining and abiding by the Federal, State and local laws, regulations and other requirements regarding the application in which they will deploy the POTSwap.*

Revision History

Revision	Revision Date	Note
00	02/18/20	Initial Release
01	03/11/20	Updated Kit info
02	11/25/20	Customer Carrier, Certifications and Regulatory Approvals Notice
03	01/21/21	Updated Model Numbers
04	03/15/22	Updated Kit Content Information
05	09/01/22	Updated Firmware and UL Certified Information

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See website for latest revision. Not intended for life support applications.