

JANUS REMOTE COMMUNICATIONS

PRODUCT BRIEF

LTE910PS POTSwap™ Standard 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.

POTSwap STANDARD KITS offer customers a POTSwap unit and standard accessories that are suitable for use within most office environments. The kits contain all items necessary to operate a POTSwap under normal operational situations.

Included in the Standard Kit:

- (1) LTE910PS POTSwap (specific version chosen by customer)
- (1) AC/DC Wall Adapter 12V 24W
- (2) LTE Antenna with SMA Connector (swivel)
- (1) GPS Active Antenna – Waterproof – Magnetic Mount – SMA Connector - 10 Feet
- (1) Quick Start Guide Documentation

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.*



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 ✓RoHS

Features

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

Applications

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

POTSwap Connectivity



Making machines talk.

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Bulletin JA16-LTE-PB SK
Revision 03
Date 01 Sept 2022

POTSwap™ Standard 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 Standard Kit	AT&T Standard Kit - UL Certified - Barrel Connector
LTE910PS V3.00 TCUVNULB Standard Kit	Verizon Standard Kit - UL Certified - Barrel Connector

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

Revision History

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

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