

# **IPR5100**

## **IP COMMUNICATOR®**

**RUGGED FIELD UNIT** with Global PTT™



**Global PTT™ is the ability  
for an IP Communicator to  
communicate Globally with  
any other Global PTT™  
enabled technology**

**Secure Push To Talk over IP  
Satellite / Cellular / WiFi / Ethernet**

- **All Metal Design ensures rugged and reliable operation in moist/sandy environments**
- **Sealed handset connector design utilizing standard U-183/U-283 audio connector**
- **Secure IP based PTT device that least cost routes based on available data source**
- **Unlimited Channels and Talk Groups (contains groupings of channels)**
- **Web management tool enabling global configuration and depolyed units**
- **Visually stunning from the 1/4 VGA, Color TFT Active Matrix Liquid Crystal Display**
- **End to End encrypted to FIPS 140-2 compliant AES 256 bit with user loadable keys**
- **Exportable to most countries without the need for any export restrictions**
- **No Static IP's required when operating over VTrunk™, Link's Cloud Based Routers**
- **Integrated GPS for unit location and tracking with external antenna**
- **Optional integrated cellular radio for GSM, HSPA+, EVDO and other cellular networks**
- **Optional Globalstar, Iridium or Thuraya Satellite module for global PTT communications**



**Contact Information:**

Link Communications, Inc.  
[www.link-comm.com](http://www.link-comm.com)  
(406) 245-5002



# Specifications



## Connections:

- **DC Power and Speaker:** IP68 sealed 4 pin Amphenol connector supporting external speaker / power
- **External SMA/TNC connectors:** IP67 sealed supporting the external RF antenna options
- **Network/Microphone Connectors:** IP68 sealed Amphenol RJ45 for network and U-283/U for handset
- **External GPS antenna:** IP67 sealed SMA supporting the external GPS antenna for tracking
- **USB Port:** IP68 sealed Samtec connector supporting user insertable USB devices for field updating the units firmware and/or loading user AES-256 bit encryption keys. When utilizing the hardware encryption module the USB port is hard-wired to the hardware crypto-module enabling key loading/management

## Specifications:

- **Power:** +8V ~ +60V DC, 1.0 Amp maximum @ 12VDC input.
- **POE Power:** ±24V ~ ±48V, 15W class device, connection through RJ-45 Network connector
- **External Speaker:** 10W Class 'D' balanced audio output driving an 8 Ohm speaker
- **Handset:** The H-250/U lightweight noise canceling handset designed to meet US military specifications MIL-PRF-49078. It is interchangeable with the H-189/GR.
- **Network:** 10/100M 10 base T connection supporting cabled VoIP and management software
- **GPS:** Integrated GPS receiver based on the Trimble Condor C1216 chipset. An external passive/active antenna utilizing external SMA connector is attached to the rear of the unit.
- **Processing:** 600 MIPS based Analog Devices Blackfin running uC Linux Operating System
- **Display:** 320 x 240 pixels 65K colors TFT Active Matrix display
- **VoIP CODECS:** Speex, g.711 a/uLaw, g.729 (lower bit-rate offerings in development)
- **VoIP Bandwidth:** 8 kbps minimum bandwidth assuming 500mS data packets (2 kbps in development)
- **Software Encryption:** AES-256 bit FIPS 140-2 compliant software module with user loadable keys
- **Physical Size:** 7.2 in (183mm) W x 2.7 in (69mm) H x 6.82 in (173mm) D: Weight 56 oz (1588 gram)
- **Temperature:** 0°F ~ 150°F (-20°C ~ +70°C), 95% Relative Humidity

## Options:

- Internal EVDO, HSPA+ and LTE cellular options are available.
- Internal 868 Mhz or 902 Mhz secure digital radio enabling off-network
- Internal Globalstar, Iridium or Thuraya satellite interface enabling FIPS secure, satellite operation