

# STARBLINK-LINK

## Radio VoIP Gateway System

*Bridge the gap between your Land Mobile Radios, Telecom systems, and VoIP networks with the STPL-IP Link, a robust single-channel Radio over IP (RoIP) gateway system.*

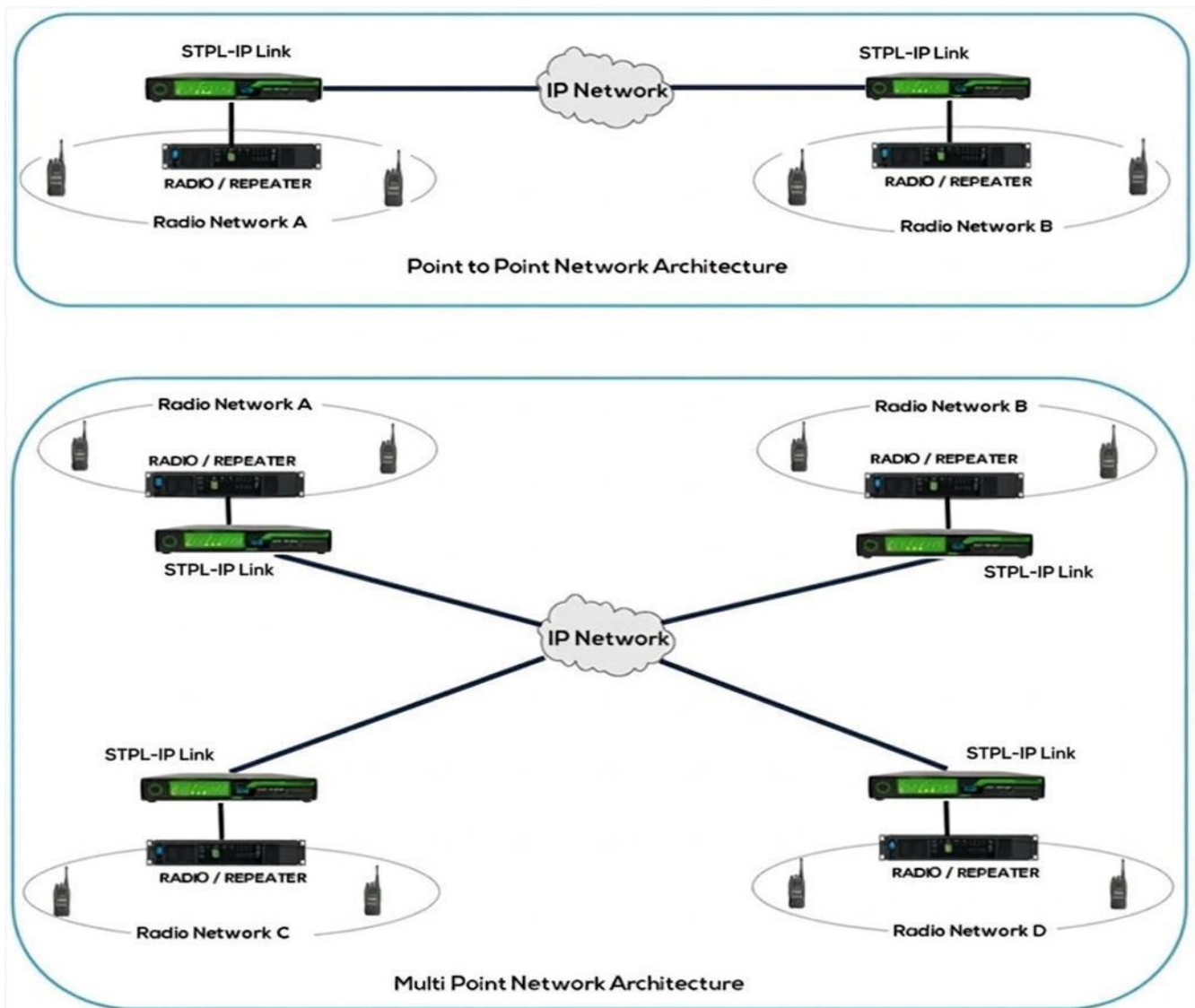


The STPL-IP Link is a compact, lightweight, and low-power system that integrates a radio/audio port, a VoIP gateway, a client-server, and a call manager. It is designed for seamless network connectivity between radios using open standards Voice over IP technology and operates on an embedded Linux platform. The system is capable of producing exceptional audio quality with very low band width usage, typically 16-64 kbps per channel.

### Key Features

- ◆ **High-Quality Audio:** Employs a low-latency, high-quality Opus codec and includes features like voice activity detection, silence suppression, and noise suppression to ensure clear communication and reduce band width consumption.
- ◆ **Dual SIM 3G/4G/5G Modem:** Features an optional built-in dual SIM3G/4G/5G modem with automatic network changeover and GPS/GNSS for reliable communication, even when wired IP links are unavailable.
- ◆ **Automated Call Routing:** The embedded call manager allows for automatic call routing, enabling networked users to dial access to multiple radio networks and create conference calls. The system uses DTMF signaling to connect or disconnect stations.

- **Secure & Reliable:** Data communication over the IP network is highly secured with TLS negotiation and AES encryption. A jitter buffer counters packet "jitter" to ensure a continuous audio play-out.
- **Easy Configuration:** The STPL-IP Link can be configured through its built-in web server. A PC-based Dispatcher application also allows for the configuration, monitoring, and management of various RoIP gateways in a network.
- **Flexible Network Architecture:** Supports both simple point-to-point and complex multi-point network architectures, enabling multi-site connectivity over various links like LAN, WAN, WiFi or the internet/intranet and GSM.



## Technical Specifications


Specification	Details
Network Interface	10/100BaseTEthernetport,RJ-45connector
Network Connectivity Options	LAN,GSM4G/5G(built-in dual SIM modem),WiFi, VSAT, etc. Built-in router capabilities
Operating Mode	Point-to-Point and Multi point communication (without console)
Server Requirement	Noserverrequiredforupto50nodes.Serverless Solution.
Communication Mode	Half/Full Duplex
Tx/Rx Control	Push to Talk(PTT/COS)/Voice Activated (VAD)
Voice Codec	Low-latency and High-quality Opus codec
Security	TLSnegotiationcyphersuitewithAES128
Encryption	256to2048bitAESencryption.Usercanusetheir own Passkey, Security Certificates, USB Dongle Signatures. Can reprogram security keys before every mission.
User Interface	Web based Graphical User Interface(GUI)
UART/Serial Server (Optional)	1port/2PortAsynchronousRS232
Digital Input / Output (Optional)	Opticallyisolated2input&2output
Network Band width/Channel	16-32kbpsperchannel(Typical)(64 kbps Max)
Number of Radio Channels	1(Default)or2(Optional)
IP Modes	Static IP/DHCP.LAN/WAN/OFC, Full Duplex
Power Input	12VDCTypical(10.8V- 30V Max) @750mA Max.
Radio Bands	VHF,UHF,HF,Air Band,etc. All Digital/Analog Radios, DMR, Repeaters
Packet Loss	<1%(Noperformancedegradationupto30%packet loss)
Accessories	User Guide, Programming, Patchcords, Radio Interface and Power Cables

Radio Connection	4 Wire transformers isolated 600Ω balanced audio Interfaces with PTT & Optically isolated COS Signaling
Display	OLED Graphics Display
USB Port	2USB2.0typeAFemaleports
GPS/GNSS	Built-in GPS/GNSS
Call Recording, Wi-Fi	Yes (option)
Remote Management	Can be remotely killed/destroyed if lost or if gone In wrong hands
Firmware Upgrade	Provision for Over the Air(OTA) firm ware upgrade
Reset Facility	Factory reset possible
Link Status Indicator	Yes through LEDs
Form Factors	Table Top, Rack Mountable, MIL Grade Ruggedized Portable cases, Vehicle mounted, Man pack/ Backpack
Operating Temperature	0-55 °C
Humidity	0-95%non-condensing
Weight	Approx450g
Warranty	Standard36months



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