Radio Over IP Gateway

Model RoIP-400

Radio Over IP (RoIP) Gateway is a powerful and flexible device that bridges the gap between traditional radio communication systems and IP networks. With RoIP, you can integrate your existing radio equipment with your IP-based communication infrastructure, enabling seamless and cost-effective communication across different locations, networks, and devices.

Radio over Internet Protocol uses standard techniques to transfer the analog audio signals used by Analog and Digital Land Mobile Radio/Repeater Systems, digitally over the LAN (or Internet). In addition to voice, RoIP also transfers signals that are specific to LMR applications,

RoIP is useful to connect multiple radio networks/ radio sites in different configurations such as below

- **Point to Point Direct Mode**
  (Two Sites directly without any Server)
- **Multi-Site Mode**
  (Multiple Sites using RoIP PTT Server Software)
- **Monitoring Mode**
  (Monitoring Single or Multiple Sites with Recording)
- **Bridge Mode**
  (Cross Patch between multiple radios networks in single unit)

Manufactured by
STACKIOT TECHNOLOGIES PRIVATE LIMITED
www.stackiot.tech sales@stackiot.tech

Version 1.0 (March 2024)

SPECIFICATIONS

Network Requirements

- Device Payload: 1kbps idle, 32Kbps(ADPCM)/ 64kbps(ALAW) active per user
- Network Loading: Minimum 128kbps Network Bandwidth
- Packet Loss: <1%
- Packet Delay: <100ms (Programmable depending upon net speed)
- Network Type: Fully switched Ethernet, full duplex.,

General Specifications

- No of Radio Ports : 4 Nos (4 x RJ45 Connector)
- Network Connection: 10/100 Base-T Ethernet connection using RJ-45
- Dimensions: 1.75 x 5.9 x 4.3 inches (H x W x D)
- Weight: 360g
- Operation Temperature Range: -10 to +55 Celsius
- Power: 9V DC, 500mA

Radio Signals Used

- PTT
- Carrier Detect (CSQ)
- Receive Audio (Speaker)
- Transmit Audio (Mic)

Other Features & Specification

- Supports upto 4 radio ports interface on a single unit
- Cross Patch between multiple radio networks at same location
- Wide Area Network Connectivity.
- Inter-connectivity between multiple radio networks
- Auto-Connection on link or power reset.
- User Programmable IP Configuration.
- Flexible Port Address Configurability.
- Secured Communication by using Authentication Packets.
- Connection between Static IP Network and a Static/Dynamic IP Network.
- Dynamic Ip Connectivity with domain names
- Web based Configuration Settings
- Carrier/ Vox operated Mode (programmable).
- Local Repeat Mode Feature (programmable).
- Selectable CSQ or PTT priority feature.
- Adjustable PTT Delay depending upon net speed.
- Programmable PTT Time out Timer (TOT).
- Multi-Connection Mode for Redundant Server Configuration

TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT OBLIGATION OR NOTICE

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