Radio Over IP Gateway

ROIP-300S

Features and Specifications

Radio over Internet Protocol uses SIP Protocol to transfer the analog audio signals used by 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, such as PTT and COR Control lines. ROIP provides secure wide area connectivity between Radio Systems at different locations connected using Static/ Dynamic IP. It also has additional feature of Automatic Connectivity on power/link reset. Multiple PC consoles can be operated without the high cost of installing fixed consoles.

Radio over IP Gateway was developed to extend the limited range of radio base stations of few kms. It connects different radio networks together over the IP Backbone. With the unlimited range of Ip connectivity, range of radio communication could be increased as desired. All the handsets/ walkie-talkie of radio networks can communicate with each other.

IP BACKBONE:
ROIPs can be connected together over IP Backbone (*Ip Connectivity between the points)*, which can be any of the following:

- Internet Connectivity
- LAN Connectivity
- WIFI Connectivity
- VSAT Connectivity
- IP Radio Connectivity
- OFC Connectivity

APPLICATIONS:
- Communication between different office locations.
- Monitoring and Managing of communication between multiple locations at a central location through SIP Server.
- Connectivity with IP Phones, IP PBX,
- Connectivity with SIP Soft Phones.
- Connectivity with VOIP FXS, FXO Gateways,

ISO 9001: 2008

SPECIFICATIONS

Network Requirements

- Device Payload: *1kbps idle, 64kbps 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.*
- Protocol: *SIP, RTP*
- Audio: *G711 Codec*

General

- 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*
- Network Connection: *10/100 Base-T Ethernet connection using RJ-45*

Radio Signals Used

- PTT
- Carrier
- Receive Audio
- Transmit Audio

OTHER FEATURES/ APPLICATIONS

- Wide Area Network Connectivity.
- Auto-Connection on link or power reset.
- User Programmable IP Configuration.
- DHCP Client Feature
- 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).
- DTMF Call Dialing
- Auto Call Receive
- SIP Phone Book Speed Dial upto 10 Numbers.

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