Voyager EMm

Fueled by Cistech Solutions technology, VoyagerEMm is an integrated Radio over IP (RoIP) system with interfaces for radio, Ethernet and handset audio. With ultra-low power requirements, VoyagerEMm is ideal for battery powered applications where SWaP is critical.

VoyagerEMm provides four E&M radio interfaces for connection of audio for push-to-talk (PTT) radios. Three Ethernet ports are also available along with a handset/headset/speaker connector for handsets such as the military H-250.

The VoyagerEMm is designed for use in austere environments and is housed in a ruggedized chassis with dust caps on all ports.

VoyagerEMm is available in VoyagerEMm4 (1 x VoyagerEMm) and VoyagerEMm8 (2 x VoyagerEMm) variants.

Portable   Rugged   Low Power

COMMUNICATE MORE, CARRY LESS

KLAS

Specifications

NOTE: Specifications shown below are for a single VoyagerEMm module.

Physical Specifications
- 188 x 145.2 x 26mm (W x L x H)
- Weight: 1.0kg

Electrical Specifications
- 12 – 18 VDC Input for operation
- Power consumption: 2 Watts

Construction
- Integrated aluminum chassis with dust caps

Operating Temperature
- -25°C to 60°C

System Management
- Central or Local Management
  - Web
  - Telnet (Base Configuration) Serial (Base
  - Configuration)

IP Configuration
- IP Address allocation Static/ Dynamic
- Network Monitoring Support SNMP V2
- Network Time Protocol Support SNTP
- Adjustable MTU Support (VPN)

CODECs Including
- G.711, G729, ILBC, Speex, SILK, OPUS, AMR
- Dynamic Payload Selection

Compliance
- Designed to meet:
  - MIL-STD-810G
  - MIL-STD-461 E
  - FCC Part 15B

Ports
- 2 x Ethernet RJ-45 on front
- 1 x Ethernet Mill-Max on rear
- 1 x Console RJ-45 Management port
- 4 x E&M RJ-45 radio ports
- 1 x H-250 Handset connector

LMR Port
- 4 Wire E&M 600 Ohm
- Half / Full Duplex
- Radio PTT Trigger Options:
  - Packet / Voice
- PTT Signal Support (Optically Coupled) Relay
  - Isolated (Close Circuit)
- COR Signal Support (Optically Coupled)
  - Close Circuit
  - DC Switched
  - VAD
- Audio Level Management
  - AGC
  - Configurable input gain (dB)
  - Configurable output gain (dB)
- Audio Input Range (Transformer Coupled)
  - -60 to +0 dBm (600 Ohm)
- Audio Output Range (Transformer Coupled)
  - -60 to +0 dBm (600 Ohm)
- SIP Channel Connection Options
  - Call on load
  - Call on activity

Handset port (H-250)
- H-250 Handset Support
- PTT
- Sidetone
- Volume Controls
- TalkGroup Selection
- Switched DC handset output power on pin F

Indicators
- Handset PTT
- Network Activity
- Radio Port PTT/COR
- Blackout Mode

IP RTP Channel Options
- RTP Channel Support
  - Multicast
  - Unicast (RTP/SRTP)
  - SIP (Secure / Non Secure)
- RTP Channel Options
  - QoS
  - Codec
  - RTP Payload Size

E&M
- Frequency response selectable for 300 Hz to 3.4 KHz
- Tx Audio
- Rx Audio
- Press to Talk (PTT)
- Squelch (SQL)

Key Features

- Four RJ-45 radio ports supporting Press to Talk (PTT) and Squelch (SQL) functions
- Low power consumption
- Data and power backplane to simplify cabling
- Lightweight aluminum construction
- Two Ethernet ports on the front panel and one on the rear panel
- Support for a handset/headset/speaker such as the H-250
- Toggle switch allows switching between radio 1–4 and adjusting the volume level.

VoyagerEMm4

VoyagerEMm8

Certified System
Quality
ISO 9001
SAI GLOBAL