

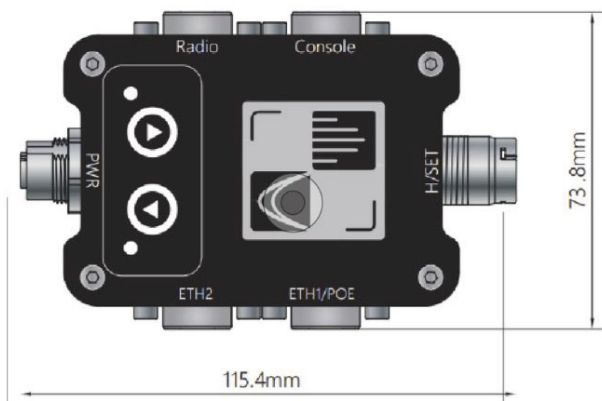


GV1-2010

Single Port Radio over IP (RoIP) Gateway for Mission Critical Operations.

Overview

The CISTECH Solutions RoIP Gateway is a durable and portable device that enables the connection of voice radios to IP networks via a single LMR port. Its compact and rugged form factor makes it ideal for mission-critical voice communication over IP networks in both fixed and mobile roles, particularly in harsh environments.



The GV1-2010 features connections for one radio and military H-250 handsets, with network connectivity through one of two Ethernet ports configured as a 2-port switch. As a data and voice communications hub, the GV1-2010 is suitable for mobile or fixed deployments in demanding environments.

The GV1-2010 is designed with high-grade components, conduction cooling, and an extended operating temperature range, ensuring optimal performance in harsh environments that require TCP/IP, VoIP, and analogue voice integration.

As a core component of the Integrated Serverless Voice Solution, the GV1-2010 is versatile and adaptable, whether you need to integrate a single radio network into an IP system or multiple radios for interoperability. Its low power consumption and rugged nature make it an essential tool for successful mission outcomes.



Specifications

Interfaces	2 x 10/100/1000 Ethernet switch ports. 1 x Land Mobile Radio port. 1 x Handset port. 1 x Serial Console.
System Management	Web. Telnet (Base Configuration). Serial (Base Configuration).
IP RTP Channel Options	RTP Channel Support: Multicast. Unicast. SIP. RTP Channel Options: QoS. Codec. RTP Payload size.
IP Configuration	IP Address allocation. Static/Dynamic. Network Monitoring Support SNMP V2. Network Time Protocol Support SNTP. Adjustable MTU Support (VPN).
CODECS	G.711, G.726, G.729. Linear PCM, ILBC. Speex, SILK, ILBC, OPUS, AMR-NB. Dynamic Payload Mapping.
Ethernet	10/100/1000 BaseT. Auto MDI/MDIX. QoS. 802.3af POE (ETH1 Only).
LMR Port	4 Wire E&M 600 Ohm. Duplex (Full/Half). 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.
Dimensions	(H) 34.3 x (W) 73.8 x (D) 115.4mm.

Environmental Testing	High and Low Temperature: MIL-STD-810G, Method 501.5 and 502.5. +80C to -40 (Operational & Storage). Humidity: MIL-STD-810G, Method 507.5. 31C-41C. 59% to 89% RH. 15 Cycles. Vibration: MIL-STD-810G, Method 514.6. Category 4: Truck/Trailer (Secured Cargo). Category 7: Aircraft – Jet (C-17). Category 21: Watercraft – marine vehicle. Shock: MIL-STD-810G, Method 516.6. Procedure I – Functional shock. Procedure IV – Transit Drop. IP67: IEC 60529 (Dust. Water: 1m for 30 minutes). Altitude: MIL-STD-810G, Method 500.5 – Procedure 8. 50,000 feet – one hour.
Handset Port	H-250 Handset Support. PTT. Sidetone. Volume Controls. Switched DC handset output power on pin F.
Indicators	Handset PTT. Network Activity. Radio Port PTT/COR.
Weight	390g. 420g (With dust covers).
Power	Input: 10 - 48V DC, 802.3af POE. Consumption: < 3 Watts.
Temperature Monitor	-40 to +85°C.



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Steatite will work with our customers to gain a clear understanding of their application.

