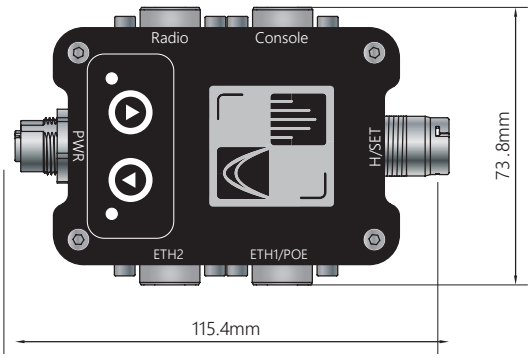
CISTECH SOLUTIONS

CHANGING THE WAY YOU COMMUNICATE

GV1-2010

Single Port Radio Gateway for Mission Critical Operations

The CISTECH Solutions radio voice gateway is a ruggedised portable radio gateway that provides a single Land Mobile Radio (LMR) port to connect voice radios to IP networks. The rugged, compact form factor of the GV1 is ideally suited for mission-critical voice communications over IP networks in fixed and mobile roles.



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

Using high-grade components, conduction cooling and extended operating temperature range, the GV1 is optimised for operation in harsh environments that require TCP/IP, VoiP and analogue Voice integration.

GV1-2010 Specifications

Dimensions	34.3 x 73.8 x 115.4mm (H x W x D)
Weight	390g, 420g with dust covers
Input Voltage	10-48V DC, 802.3af POE
Power	< 3 Watts
Temperature Monitor	-40 to +85°C

Interfaces
- QTY 2 10/100/1000 Ethernet switch ports
- QTY 1 Land Mobile Radio port
- QTY 1 Handset port
- QTY 1 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, G729
- 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

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

CISTECH SOLUTIONS

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Certified System Quality ISO 9001 SAI GLOBAL

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