



RES-GMC-1M-FORC

Military Ethernet Media Converter with Remote Control

For fiber extension of existing systems on the Field

Amphenol's RES-GMC-1M-FORC is a MIL-STD rugged, unmanaged-military-grade Media converter, offering one Gigabit copper ports 10/100/1000Base-TX and one 100/1000Base-SX fiber ports.

Combining the RES-GMC-1M-FORC with a fiber drum, your network will be extended on the field.

- Simply add 2 media converters unit 1 and unit 2 + a fiber drum
- Use our special feature: unit 2 is remote controlled by unit 1

Due to extreme low consumption of unit 2 in STANDBY mode, your battery on the field will operate longer.

Developed for military and harsh environment applications, the RES-GMC-1M-FORC features mechanical packaging enhancements designed for MIL-STD-810F airborne and ground environmental compliance and high reliability.

The unit has been especially hardened to improve ingress, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling, and interface through sealed MIL-D-38999 circular connectors.

Leveraging best-in-class technology, the RES-GMC-1M-FORC series serves as a robust solution to extend your Tactical Gigabit Ethernet network connectivity over fiber.

- Military applications**
- Data acquisition & transmission
 - Battlefield communication C4ISR
 - Rugged Networks
 - Combat vehicles
- Where your system can be extended through network.



Unit 1

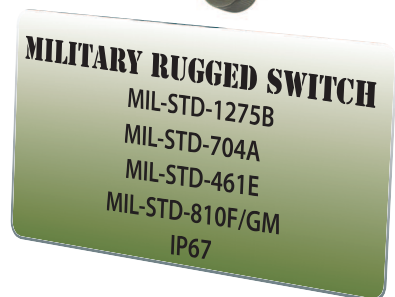


Fiber drum

- Key features**
- **Ethernet ports**
 - 10/100/1000 Base TX to 100/1000 Base SX-(MM) Media converter
 - **Networking**
 - Full wire-speed forwarding rate
 - Store-and-forward or Pass through mechanism
 - Auto MDI-II, MDI-X, FDX, HDX, Flow control
 - Auto-negotiation and fixed settings via DIP switch
 - Jumbo frame support
 - Link loss forwarding mechanism
 - **Connectors**
 - MIL-D-38999 (Power & Ethernet signals)
 - Fiber connector type: CTOS 77 PC (2 fibers for Ethernet, 1 fiber for remote control)
 - Protective caps over each connector
 - **Chassis**
 - Low profile rugged aluminium extrusion
 - Conductively cooled w/custom internal heat-sinks
 - Ingress protection against sand, dust and moisture
 - Anodize coating, MIL-A-8625, Type II, Class 2
 - Color: sand mate
 - **Standards**
 - MIL-STD-1275, MIL-STD-704A, MIL-STD-461E,
 - MIL-STD-810F GM, IP67/68



Unit 2



Product specifications

Performance

- 26.8 Mpps wire speed forwarding rate
- 2 Gbps maximum forwarding bandwidth
- 4K MAC address
- 2 LED indication (Speed, Link/Activity) per port
- Wire-speed reception and transmission

Standards compliance

- IEEE 802.3, 10 Mbps 10BASE-T (Ethernet)
- IEEE 802.3u, 100 BASE-TX 100 Mbps (Fast Ethernet)
- IEEE 802.3ab, 1000Base-TX
- IEEE 802.3z, 1000Base-FX Gigabit
- IEEE 802.3x Flow control

Power

- MIL-STD-1275B & MIL-STD-704A Surge and Spike protection
- Voltage input: 24Vdc nominal (18-36V)
- Power switching of the external DC input of unit 2 upon ON/OFF command from unit 1
- Maximum power consumption: 5W for unit 1, 10W for unit 2
- Standby consumption of unit 2: <0.1W
- Chassis grounding

Electromagnetic

- MIL-STD-461E Electromagnetic compatibility

Environmental : shock/vibration/humidity

- MIL-STD-810F, 501.4I, 501.4II, 502.4I, 502.4II, 507.4, 500.4II, 514, 516I, 516VI, 514.5, 512.4
- IP67/68

Physical

- Dimensions: 170mm(L) x 140(W) x 110(H), including connectors & hardware
- Weight: 1.55kg for unit 1, 1.80kg for unit 2

Installation

- Set of Four 4x4.3 mounting holes on bottom for mounting to any flat surface.

Cooling

- No moving parts. Passive cooling.

Operating temp

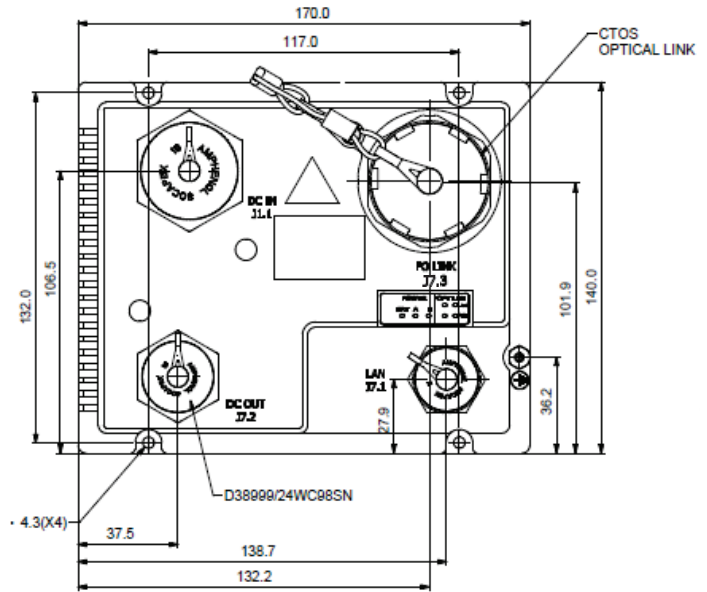
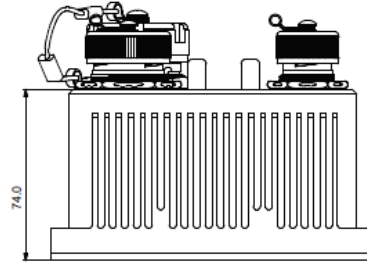
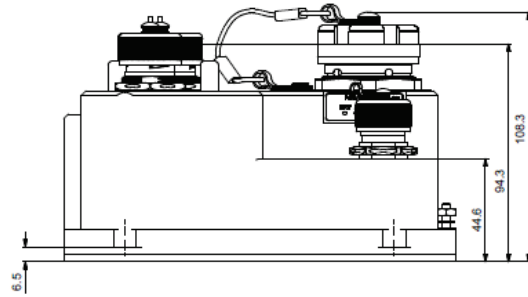
- -35°C to +75°C (-31°F to +167°F) / -35°C Cold start-up

Storage temp

- -45°C to +85°C (-49°F to +185°F)

Dimensional line drawing

All measurements are in millimeters



		Description
Part number	RES-GMC-1M-FORC-1	MIL-STD Rugged Gigabit Media Converter unit 1, 1x RJF connector, 1x fiber CTOS connector, MM, SX
	RES-GMC-1M-FORC-2	MIL-STD Rugged Gigabit Media Converter unit 2, 1x RJF connector, 1x fiber CTOS connector, MM, SX, remote controlled by unit 1
	CTOS drum	Please consult us

► For accessories, please consult us.