

# MESHnet® V6 Tactical TMR-314

## *Enterprise Class GVA L3 Tactical Mobile Router*



### Reliable, End-to-End Connectivity

The TMR-314 provides a multimedia server to facilitate the management and distribution of information in a timely manner.

Overcomes challenges associated with high bandwidth overhead by analyzing network feedback to characterize links and deliver information through the most appropriate bearer.

Disruption Tolerant Networking (DTN) technology provides message delivery mechanisms using store and forward techniques to eliminate end-to-end connectivity.

### Features

- Quantity (4) Ethernet interfaces up to 10 GigE speed
- Quantity (4) Ethernet interfaces up to 1 GigE speed
- RFC4838 Disruption Tolerant Networking (DTN)
- Dynamic transport protocol selection of TCP, UDP, DTN and CFP path on detected bearer
- Network QoS support using DSCP

# Technical Information

## Interfaces:

- Ethernet:
  - Qty. (4) x 10/100/1000 Mbps (GVA compliant dual Ethernet pinout x 2)
- 10 Gigabit Ethernet:
  - Qty. (4) x 10/100/1000/10000 Mbps
- Maintenance:
  - Qty. (1) x RS-232
  - Qty. (1) x USB 2.0 OTB
  - Qty. (4) x GPIO
- Power:
  - Qty. (1) x MIL-STD-1275E GVA Power
- Accurate Timing:
  - Qty. (1) 1PPS input
  - NTP supports
  - Qty. (6) 1PPS repeater
- Processing:
  - Qty. (1) x Dual-core ARM v9
  - Qty. (1) x Dual-core ARM v7
  - Qty. (1) x Marvell Advanced L3 Router

## Display and Controls:

- Built-in Test, Power, and Ethernet status LEDs
- Unit Reset and Backlight mode switches

## Physical Characteristics:

- Height 105 mm (4.13")
- Width 172 mm (6.77")
- Depth 153 mm (6.02")
- Weight 2.20 kg (4.82 lbs)

## Environmental Specifications:

- -40°C to +63°C (-40°F to +145°F) operating
- -51°C to +80°C (-60°F to +176°F) storage
- MIL-STD-810D tested for vibration (wheeled and tracked), transit drop, shock, salt fog, sand and dust, fluid contamination, NBC decontamination, immersion, fungus and altitude
- Electromagnetic Effects: MIL-STD-461E

## Power:

- 24 to 32 VDC (MIL-STD-1275B), Max. consumption 42 Watts

## Reliability:

- Mean Time Between Failure (MTBF) greater than 10,000 hours
- MIL-HDBK-217F, Ground Mobile Environment @ 25°C

## Best-of-Breed Confidence

General Dynamics is a distinguished worldwide provider of ruggedized electronic equipment designed and qualified to withstand operation in the most extreme tactical environments. Our MESHnet® Family of products is field proven and trusted globally for robustness and reliability.

General Dynamics products are based on proven, configurable modules and are available in standard or custom configurations. This product sheet describes many of the options for this product family. For availability and details of specific configurations or for custom requirements, please contact General Dynamics.

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