

# Fortress® Wireless Gateway

*Next Generation Mobile Wireless Platform*



Integrated LTE Modem, Mesh Point & Wi-Fi Access Point

Flexible to Accommodate Multiple Wireless Technologies and Frequency Bands

Designed for Public Safety, Tactical and Industrial Applications

Enhanced with Commercial, Government and Military Approved Security Standards

Rugged Design for Vehicles and Harsh Environments

## Overview

General Dynamics' Fortress Wireless Gateway is a rugged, high-performance, wireless communications gateway, designed specifically for public safety, tactical and industrial network applications. The Fortress Wireless Gateway allows connectivity and roaming between multiple wireless networks, including Mesh, Wi-Fi and LTE, and delivers secure, high-performance, COTS wireless communications capabilities based on industry-proven technologies. The Fortress Wireless Gateway enables rapid establishment of a scalable and mobile high-performance secure wireless network for ad-hoc operations, and also provides connectivity into an existing Wi-Fi or LTE infrastructure network. Fortress Mesh provides a self-forming, self-healing, and path-optimizing wireless network infrastructure for dynamic network environments.

The Fortress Wireless Gateway is enhanced with the highest levels of industry-standard encryption and meets commercial and government security standards. The Fortress Wireless Gateway's focus on security, network resilience, ease of rapid deployment and rugged design make it ideal for mobile vehicle applications and harsh environments.

# Fortress® Wireless Gateway

## Features and Benefits

- Compliant with 3GPP LTE Global Standards
- Self-Forming, self-healing, mesh networking
- High power Wi-Fi access point or client
- High performance 2x2 MIMO Mesh and Wi-Fi radios
- GPS/GLONASS receiver
- Licensed and unlicensed spectrum support (Mesh)
- U.S. federal government and DOD security compliance
- Available in COM Express form factor or software for embedded applications

## Why Choose Fortress Wireless Solutions?

General Dynamics Mission Systems' Fortress® Wireless solutions deliver rapidly deployable tactical LTE and Wi-Fi solutions that enable high-speed access to vital information including real-time video, voice and data using any 3GPP compliant LTE enabled device. As an Original Equipment Manufacturer (OEM), we are uniquely positioned to meet the requirements of the tactical market. Our industry-leading Mesh and 4G LTE products are Size, Weight, Power and Cost (SWaP-C) optimized, rugged, frequency agile, support distributed network environments and are waveform and cyber hardened. Our Fortress LTE and Wi-Fi Mesh systems are currently in service with military, public safety and industrial users around the world.

## Preliminary Specifications

### ■ Size

- 9.7" x 7.5" x 2.6" (246mm x 192mm x 66mm)
- 7lbs (3.17 kgs)

### ■ Interfaces

- Ethernet
  - 1x 10/100/1000BT RJ45 Connector (POE+)
  - 4x 10/100/1000BT push-pull M12 Connector
- USB: 1 x USB3 M12 Connector
- Power: push-pull M12 Connector and RJ45 POE+
- Antenna:
  - Push-pull SnapN-Type Connectors (Radio)
  - SMA (GPS)

### ■ Operating Frequencies

- LTE: Commercial and government bands
- Wi-Fi: Unlicensed and government bands

### ■ Networking

- Wireless
  - 802.11a/b/g/n Access Point, Mesh Point, Client
  - LTE 3GPP Release 9 & 10
- IP Compatibility
  - IPv4 and IPv6
  - Integrated DHCP and DNS

### ■ Security

- FIPS 140-2
- NSA Suite B Cryptography
- WPA2 Personal and Enterprise
- IPsec

### ■ Management

- Access
  - Secure Browser-based GUI
  - USB CLI (physical access)
  - SSH (network)
  - SNMP Monitoring
- Indicators
  - Power
  - Status
  - Ethernet Link/Activity
  - Radio Strength/Activity

### ■ Environmental

- Operating Temperature -40°C to 70°C (-40°F to +158°F)
- Storage Temperature -40°C to 70°C (-40°F to +158°F)
- Convection Cooled (no fans)
- Humidity 5% - 95% Non-Condensing
- IP67 & NEMA 4X Enclosure
- MIL-STD-461/810/1275

### ■ Power

- 28 VDC
- 802.3at POE

### ■ Certifications (Pending)

- Safety & Emissions: FCC, ETSI, CE, IC, RoHS

### ■ Warranty

- 1 year limited warranty

**GENERAL DYNAMICS**  
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