

micro-MESH RADIO

- **“TRUE-MESH” TECHNOLOGY**
- **MILITARY GRADE SECURITY**
- **MULTIPLE FREQUENCY CAPABILITIES**

Applications

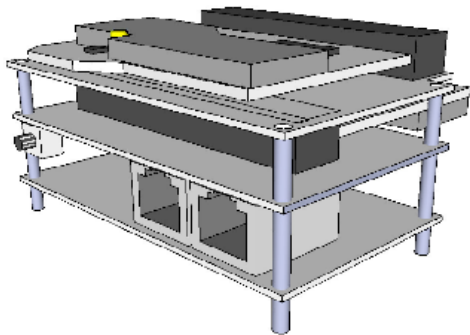
The Antenna Products' micro-Mesh Radio (mMR) product line consists of three major sectors:

- Military-Mesh Radio (MMR)
- Emergency-Mesh Radio (EMR)
- Commercial-Mesh Radio (CMR)

Features

The mMR is light weight and compact, “true mesh wireless” hardware. Utilizing the embedded Intelligent Routing Software (IRS) and multiple-frequency architecture, the mMR creates a converged wireless infrastructure which allows for real time back haul diversification. This process creates a common network channel within the network.

Antenna Products' mMR is the first high capacity “true-mesh” wireless networking system that is completely independent of network capability restrictions seen in other wireless systems. Military and Public Safety customers have the capability to function as a root or repeater node and maintain military-grade compliance of Federal Information Processing Standards (FIPS) 140-2* without additional controllers or modules. Together, mMR and IRS deliver a unique class of “true-mesh” wireless network equipment specific to its focused sector. Frequency configurable for licensed and non-licensed frequencies, an mMR can be quickly introduced into an existing network infrastructure without costly major network upgrades. This convergence frequency capability ensures optimized support for mobile data, video, interconnect Push-to-Talk (PTT) voice capabilities*, real-time handoff and roaming, Over-the-air (OTA) technology upgradeable, and non-line of sight (NLOS) frequency options allows for a high level of obstruction penetration.



Network Electronics Interface

- 802.3u 10/100 Ethernet
- 440MHz Processor
- 512MB memory
- Board Temperature Monitoring
- LED connection and status indicators

Management

- mMR Single Management Interface

Security

- 802.11i
- 802.1x authentication, EAP-(SIM, PEAP, TLS, TTLS)
- Internal hardware assisted AES, WPA, WPA2, TKIP-MIC, FIPS

140-2*, APC MESHID authentication

- IPsec
- L2TP
- MAC address filtering

Power Specifications

- POE 48 VDC
- Internal Lithium-Ion battery with smart battery charging system

Environmental

- Electronics
 - Operating temperature -45 to +80° C
 - Humidity 5% to 95%
 - Operating Shock and Vibration
 - _ 6g, 11ms, ½ sine wave
 - _ 0.01G²/Hz 50-500 Hz
 - random vibration

