Description
Talkaphone’s VOIP-RF-FM1100 Wireless Interface is a MIMO-based wireless radio capable of offering extreme performance with a small form factor. The intuitive design makes it easy to deploy. It can be used to create point-to-point, point-to-multipoint, mesh, and mobility networks.

Features
- Point-to-point, point-to-multipoint, mesh, and mobility networks
- Operating at 4.9 GHz and 5.1-5.8 GHz and modulating 1 Mbps (upgradable to 300 Mbps)
- Range of up to 24 miles in optimal environmental conditions
- Web based interface for remote management
- Optional 128-bit or 256-bit AES encryption at the link level and 802.1Q VLAN support

Specifications
Range: Up to 24 miles in optimal environmental conditions
Frequency bands: 4.9-5.9 GHz
Throughput: Up to 180 Mbps
Modulation: 1 Mbps (upgradable to 300 Mbps)
Transmission Power: Up to 27 dBm
Receiving Sensitivity: -96dB @ 6.5 Mbps, -75dB @ 300 Mbps
Latency per hop: < 0.3 ms
Antenna type: Built-in 2x2 MIMO Panel
Antenna gain: 16.1-17.1 dBi
Antenna polarization: Dual linear
Cross-pol Isolation: 22 dB minimum
Max VSWR: 2.0:1
Horizontal Beamwidth: 33 deg
Vertical Beamwidth: 17 deg
Power: 8 watts maximum, passive PoE 12-24VDC, 90-260VAC (with optional VOIP-RF-FM-POE)
Operating temperature: -40° F to +176° F (-40° C to +80° C)
Humidity: 95% condensing
Weather rating: IP66
Wind survivability: 120 mph
Shock & vibration: ETSI 300-019-1.4
Wind Loading @ 125Mph: < 25 lbs.
Dimensions (W x D x H): 6.1 x 3.1 x 13.0 in. (157 x 80 x 331 mm)
Weight: 1.1 lbs. (0.5 kg)
Interface: 2 Internal Ethernet 10/100BaseT RJ45 ports
Mounting: Mounts to a pole with supplied Pole Mounting Kit
Compliance: FCC CFR 47 Part 15 (class B), CE, Industry Canada RSS 210
Warranty: 2-year warranty
Options & Accessories

AES-128 link level encryption: Order model **VOIP-RF-FM-AES** to add additional security with AES 128-bit encryption.

AES-256 link level encryption: Order model **VOIP-RF-FM-AES2** to add additional security with AES 256-bit encryption.

802.1Q VLAN: Order model **VOIP-RF-FM-VLAN** to add the 802.1Q VLAN support.

PoE Injector: Order model **VOIP-RF-FM-POE** to power the VOIP-RF-FM1200 when using a solar or battery powered solution.

Fluidity plugin: Order model **VOIP-RF-FM-FLTY** to add the broadband connectivity plugin for high speed vehicles (traveling at up to 200mph/320Kmh).

Modulation speed: Please contact Talkaphone for a quote on upgrading the modulation speed.

**Dimensional Diagram**

All dimensions are provided for reference only.