EMERGENCY PHONE ACCESSORIES

VOIP-RF-FM1100 – Wireless Interface

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:	-40º F to +176º F (-40º C to +80º 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.
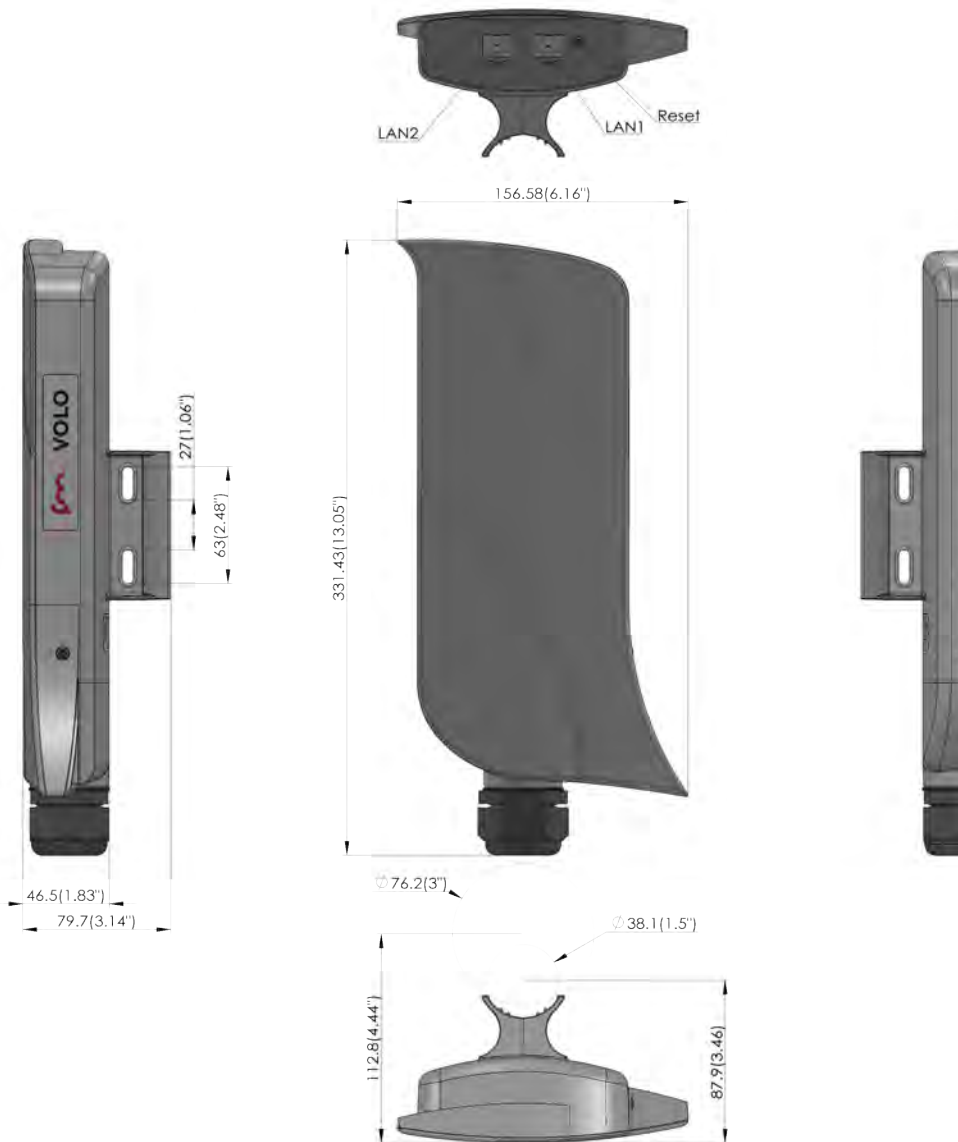
Fluidity plugin: Order model **VOIP-RF-FM-FLTY** to add the broadband connectivity plugin for high speed vehicles (traveling at up to 200mph/320Kmh).

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

Dimensional Diagram

All dimensions are provided for reference only.