

Multi-mode Antennas

Surface mount RF & GPS antennas for mobile transit vehicles

OVERVIEW

The MobileView™ Multi-Mode Antennas provide high performance operation on simultaneous GSM or CDMA bands, 2.4 GHz 802.11 bands and GPS.

The quad-mode model has three separate RF feeds and one GPS feed, diverse configurations can be accommodated for either GSM or WiFi. The tri-mode model has two RF feeds and a GPS feed.

The surface-mount-style antennas can be mounted to any vehicle. The design uses a 3/4 in. (19 mm) feed through mounting stud for securing to the surface. Access to both sides of the mounting surface is required to complete the installation.

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuit has a low noise figure (2.0 dB max) with excellent filter characteristics. The antennas are enclosed in a 4-in. diameter, 2.85-in. tall, weatherproof ASA radome, and supplied with all mounting hardware and a sealing gasket. The antenna color is white, with optional black.



STANDARD FEATURES

- Mounts easily to roof, trunk or bulkhead
- Multi-mode covers frequency systems from 2.1 GHz to 2.5 GHz and GPS
- Two (Tri-Mode) or Three (Quad-Mode) RF coax feeds for radio communication channels and one feed for GPS
- High-performance GPS with 26 dB amplifier

Multi-mode Antennas

North America
T 855-286-8889

Asia
T 852-2907-8108

Australia
T 61-3-9239-1200

Europe
T 32-2-725-11-20

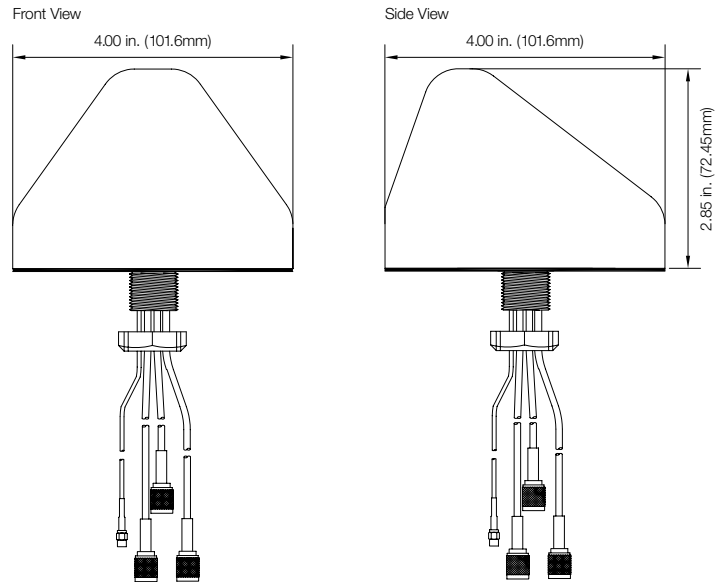
Latin America
T 561-998-6114

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Specifications

Gain & Frequency on 4 Antenna Model	Cable 1: 5 dBi Peak for 2.1 – 2.5 GHz & 4.4 – 6.0 GHz Cable 2: 5 dBi Peak for 2.4 – 2.5 GHz & 4.9 – 6.0 GHz Cable 3: 5 dBi Peak for 2.4 – 2.5 GHz & 4.9 – 6.0 GHz Cable 4: 26 dB, 5 dBi GPS Antenna; 1575.42 ± 2 Mhz (GPS); Voltage: 3.3/5 VDC; Current: 10mA (typ.) 20mA (max.)
Gain & Frequency on 3 Antenna Model	Cable 1: 5 dBi Peak for 2.1 – 2.5 GHz & 4.4 – 6.0 GHz Cable 2: 5 dBi Peak for 2.4 – 2.5 GHz & 4.9 – 6.0 GHz Cable 3: 26 dB, 5 dBi GPS Antenna; 1575.42 ± 2 Mhz (GPS); Voltage: 3.3/5 VDC; Current: 10mA (typ.) 20mA (max.)
VSWR	< 2:1 VSWR over range
Noise Figure	2.0 dB max, 1.7 dB typical
Weight	3 lbs (1.4 Kg)
Operating Temp	-30° to +85 C
Nominal Impedance	50 ohms
Amplifier Bias	2.7 to 5 VDC
Maximum Power	10 Watts
Cable	RF: Separate RF-195 Cables, 15 ft (4.5 meters) GPS: RG-174, 15 ft (4.5 meters) (GPS Dual Voltage 3v & 5v)
Case	4.0"D x 2.85"H (101.6 mm x 72.45 mm)
Case Material	White Luron-S 797S ASA plastic, Black optional
Mounting	3/4" dia. x 3/8" long (19 mm x 9mm) for maximum 1/4" thick (6 mm) surface 304 S.S.
Hardware	Nut and gasket included
Shock & Vibration	EN 61373, IEEE 1478, MIL-810G, TIA 329.2-C
Connector/interface	As requested

Dimensional Diagrams



Ordering Information

MSS-MISC-QUADBAND	MobileView™ Quad-Mode Antenna
MSS-MISC-TRIBAND	MobileView Tri-Mode Antenna



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Specifications subject to change without notice.

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210-3595 2012/10 (71365M)