

4 Cellular, 1 GPS Combination Antenna
4 SMA, 1 SMA Connector White



FMANOM1103

Features

- 4 x Cellular 4G/5G SMA Male
- 1 x GPS L1 / G1 SMA Male
- MIMO Capable
- 17 ft Cable Leads
- Indoor/Outdoor IP69K Rated
- UV Stabilized White ABS

Applications

- Public Safety
- Emergency Services
- Mobile Base Stations
- Autonomous Vehicles
- Fleet Management
- Smart Cities
- Smart Utilities
- Industrial IoT

Description

The Fairview Microwave FMANOM1103 is a 5-in-1 combination antenna designed for public safety, emergency services, mobile base stations, autonomous vehicles, fleet management, smart cities, smart utilities, or industrial IoT applications. This vertically polarized omnidirectional antenna has SMA male connectors with 17 feet cable leads. Our high-quality mobile antenna with 5 ports has a typical input VSWR of 2:1.

The IoT combination antenna from Fairview Microwave has an overall length of 7 inches, width of 7 inches, and weight of 4 lbs. This FMANOM1103 mobile antenna is IP69K-rated and has a black-colored radome made of UV-stabilized ABS. The 4 cellular, 1 GPS combination antenna has an impedance of 50 Ohms and a maximum input power of 10 Watts.

Our vertically polarized mobile antenna can operate at temperatures ranging from -40 to 70 degrees C. This MIMO-capable IoT antenna features four 4G/5G, and one L1/G1 GPS band elements in one radome. Emergency services, first responders, and fleets can rely on our 5-in-1 combination antenna to maintain a secure link between vehicles and dispatch centers.

Configuration

| | |
|-------------------|------------------|
| Design | Mobile |
| Radiation Pattern | Omni Directional |
| Polarization | Vertical |
| Connector Type | SMA Male |
| Number of Ports | 5 |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units | |
|--------------------------------|-----------|-------------|-------------|-------------|--------|
| Input VSWR | | 2:1 | | | |
| Impedance | | 50 | | Ohms | |
| Input Power | | | 10 | Watts | |
| Cellular Specifications | | | | | |
| Frequency Range | 617 - 960 | 1690 - 2700 | 3300 - 4200 | 4900 - 6000 | MHz |
| Peak Gain | 4 | 6 | 7 | 8 | dBi |
| Port Count | | 4 | | | |
| Cable Type | | RG58 | | | |
| Cable Length | | 17 [5] | | | ft [m] |
| Connector Type | | SMA Male | | | |

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| GPS Specifications | | |
|--------------------------------|--------------------------|-----|
| Frequency Range | 1562 - 1612 | MHz |
| VSWR | <2.0:1 ± 4 MHz | |
| LNA Gain | 26 | dB |
| Out of band rejection | >40 dB (@ > +/- 100 MHz) | |
| Typical Noise Figure | ≤ 2.7 | dB |
| Notch Filter rejection @787MHz | 24 | dB |
| Operating Voltage | 3 - 5 | VDC |
| Typical Current | 15 | mA |
| Cable Type / Length | RG174 / 17 ft [5 m] | |
| Connector Type | SMA Male | |

Mechanical Specifications

| | |
|-----------------|--------------------|
| Radome Material | UV Stabilized ABS |
| Size | |
| Length | 7 in [177.8 mm] |
| Width | 7 in [177.8 mm] |
| Height | 3.15 in [80.01 mm] |
| Weight | 4 lbs [1.81 kg] |

Environmental Specifications

| | |
|--------------------|------------------|
| Temperature | |
| Operating Range | -40 to +70 deg C |
| Ingress Protection | IP69K |

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Typical Radiation Pattern

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

4 Cellular, 1 GPS Combination Antenna 4 SMA, 1 SMA Connector White from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 Cellular, 1 GPS Combination Antenna 4 SMA, 1 SMA Connector White FMANOM1103](#)

URL: <https://www.fairviewmicrowave.com/product/antennas/dbi-band-mobile-antenna-sma-connector-fmanom1103.html>

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FMANOM1103 CAD Drawing

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