

**5-in1 Cellular, Wi-Fi, GPS Combination IoT Antenna
FAKRA Jack ABS Radome White IP69K**

The Fairview FMANOM1090 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 color-coded FAKRA female 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 has an overall length of 7 inches, width of 7 inches, and weight of 4 lbs. This FMANOM1090 mobile antenna is IP69K-rated and has a black-colored radome made of UV-stabilized ABS. The 2 cellular, 2 Wi-Fi, 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 two 4G/5G, two 2.4/5 GHz, 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
Polarization	Vertical
Connector Type	FAKRA Female
Number of Ports	5

Electrical Specifications

Description	Min	Typ	Max	Units
Input VSWR		2:1		
Impedance		50		Ohms
Input Power			10	Watts



Features:

- 2 x Cellular 4G/5G
- 2 x Wi-Fi 2.4 GHz / 5 GHz
- 1 x GPS L1 / G1
- MIMO Capable
- Color coded FAKRA Jack
- 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

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Cellular Specifications					
Frequency Range	617 - 960	1690 - 2700	3300 - 4200	4900 - 6000	MHz
Peak Gain	4	6	7	8	dBi
Port Count					2
Cable Type					RG58
Cable Length					17 [5] ft [m]
Connector Type					FAKRA Jack
Connector Color					Bordeaux
Connector Code					D
Wi-Fi Specifications					
Frequency Range	2400 - 2500		4900 - 6000		MHz
Peak Gain	5		6		dBi
Port Count					2
Cable Type					RG58
Cable Length					17 [5] ft [m]
Connector Type					FAKRA Jack
Connector Color					Beige
Connector Code					I
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					FAKRA Jack
Connector Color / Code					Blue / C

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:

5-in1 Cellular, Wi-Fi, GPS Combination IoT Antenna FAKRA Jack ABS Radome White IP69K 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: [5-in1 Cellular, Wi-Fi, GPS Combination IoT Antenna FAKRA Jack ABS Radome White IP69K FMANOM1091](#)

URL: <https://www.fairviewmicrowave.com/dbi-band-mobile-antenna-fakra-connector-fmanom1091-p.aspx>

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