

10-in-1 Cellular, Wi-Fi, GPS Combination IoT Antenna FAKRA Jack ABS Radome Black IP69K

The Fairview FMANOM1097 is a 9-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 9 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 FMANOM1097 mobile antenna is IP69K-rated and has a white-colored radome made of UV-stabilized ABS. The 4 cellular, 4 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 four 4G/5G, four 2.4/5 GHz, and one L1/G1 GPS band elements in one radome. Emergency services, first responders, and fleets can rely on our 9-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	10

Electrical Specifications

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



Features:

- 4 x Cellular 4G/5G
- 5 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 Black ABS

Applications:

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

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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	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	5				
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:

10-in-1 Cellular, Wi-Fi, GPS Combination IoT Antenna FAKRA Jack ABS Radome Black 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: [10-in-1 Cellular, Wi-Fi, GPS Combination IoT Antenna FAKRA Jack ABS Radome Black IP69K FMANOM1098](#)

URL: <https://www.fairviewmicrowave.com/dbi-band-mobile-antenna-fakra-connector-fmanom1098-p.aspx>

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