617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors

LCANMOB1000

Features

- Aerodynamic Shark Fin Design
- 600 MHz to 6 GHz
- 2x2 MIMO Cellular, 3x3 MIMO Wi-Fi
- LNA Integrated GPS
- IP69K Rated
- 13ft pig tails
- Auxiliary External Antenna Port

Applications

- Infotainment systems, Routers, Wi-Fi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- IoT, 4G/5G, Zigbee, Bluetooth, Wi-Fi
- GPS L1, GLONASS G1

Description

The LCANMOB1000 Multiband combination “shark fin” Antenna from L-com is a high-performance omnidirectional antenna operating from 600 MHz to 6000 MHz and is available to ship same day. It is a UV stabilized, IP69K outdoor rated antenna with black paintable ABS radome. The LCANMOB1000 is ideally suited for vehicle mounted applications where Cellular, Wi-Fi, and GPS bands are needed in a single design.

The L-com LCANMOB1000 is a mobile antenna providing broad coverage, low latency, increased network capacity and supports 2x2 MIMO (617-960MHz, 1690-6000MHz) and 3x3 MIMO (2400-2500MHz, 4900-6000MHz). This 7-port omnidirectional antenna has multiple connector types all with 13ft cable lengths. This 4G, 5G, Wi-Fi 6, GPS L1, GLONASS G1 combination omni antenna has 3 SMA Male connectors (2 Cellular, 1 GPS) and 3 RPSMA Male connectors (Wi-Fi). LCANMOB1000 also features an auxiliary antenna port with RPSMA Female connector mount with 13ft RG58 cable terminated with RPSMA Male connector. This external port will support an antennas operating from 138 MHz to 6000 MHz with RPSMA Male connector.

Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other L-com products.

Configuration

Design	Mobile
Application Band	4G/5G/Wi-Fi/GPS
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Length	157.5 in [400.05 cm]
Connector Type	SMA Male
Interface 2	SMA Male Reverse Polarity
Number of Ports	7

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	617		6,000	MHz
Input VSWR			2:1	

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
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Impedance		50		Ohms
Noise Figure		2.7		dB
Input Power			25	Watts
Operating DC Voltage	3		5	Volts
Current		15		mA

GPS Specifications	
Frequency Range	1562 - 1612
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 / 13 ft [4 m]
Connector Type	SMA Male

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617 to 0.96	1.69 to 6	2.4 to 2.5	4.9 to 6	1.562 to 1.612	GHz
Gain	4	6	5	6	26	dBi
Port Isolation	10	10	18	18		dB
VSWR Max	2:1	2:1	2:1	2:1	2:1	

Mechanical Specifications

Radome Material	UV Resistant ABS
Size	
Length	11.22 in [284.99 mm]
Width	3.15 in [80.01 mm]
Height	4.33 in [109.98 mm]
Weight	3 lbs [1.36 kg]

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Color	Black

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Humidity	5 to 95
Ingress Protection	IP69K

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

L-com CAD Drawing