

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



LCANOM1123

Features

- 4 x Cellular 4G/5G SMA Male
- 1 x GPS L1 / G1 TNC 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 L-com LCANOM1123 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 and TNC 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 L-com has an overall length of 7 inches, width of 7 inches, and weight of 4 lbs. This LCANOM1123 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
Interface 2	TNC 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	TNC 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 TNC Connector White 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.

URL: <https://www.l-com.com/iot-mobile-antenna-omnidirectional-tnc-connectors-white-lcanom1123-p.aspx>

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