



4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver

Features

- 4x4 MIMO 5G ready cellular antenna system with GPS receiver
- Cellular frequencies 698-960 MHz & 1710-6000 MHz
- Durable and UV-stable housing
- IP67 rated

Description

The Peplink ANT-107 is a 5G ready multi-band antenna built for land-based mobile applications. It supports 4x4 MIMO for high bandwidth and solid reliability. It is also 5G ready and supports a wide range of global cellular frequencies. The GPS receiver is equipped with high gain LNA, making it ideal for location tracking.

The ANT-107 has a solid housing made of UV stable plastic materials. For easier installation, the antenna comes with a 6'7" / 2m cable, available in SMA or QMA.

Applications

- Public Safety and mission critical connectivity
- Mobile healthcare
- Transportation Connectivity

Overview

	ANT-107
Antenna elements	4x LTE, 1x GPS
Cellular frequency bands	1.3dBi: 698-960MHz 6.1dBi: 1710-2700MHz 6.2dBi: 3400-3800MHz 6.1dBi: 3800-4200MHz 4.5dBi: 5000-6000MHz
GPS frequency bands	1.6dBi, LNA 28dB: 1561-1602MHz
IP rating	IP67
Dimensions	Height: 1.42" / 36mm ^(spigot not included) Diameter: 5.12" / 130mm
Coax cable type	CFD200
Coax Cable Length	6' 7" / 2m

Ordering information

Product Code	Description
ANT-107-LTE4-G	5G ready, 4xLTE, 1xGPS 698-6000MHz, IP67, SMA, White
ANT-107-Q-LTE4-G	5G ready, 4xLTE, 1xGPS 698-6000MHz, IP67, QMA, White

4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Specification

Cellular	
Antenna elements	4 elements
Cellular frequency bands	1.3dBi: 698-960MHz 6.1dBi: 1710-2700MHz 6.2dBi: 3400-3800MHz 6.1dBi: 3800-4200MHz 4.5dBi: 5000-6000MHz
VSWR:	< 2.5
Feed power handling	10W
Input impedance	50 Ω
Polarisation	Linear

GPS

Frequency range	1561-1602 MHz
Peak gain	0.5dBi@1575MHz 1.6dBi@1602MHz
VSWR	< 2.5
Output return loss	10dB max
Gain: LNA	28 ±3dB
Noise figure	1.5dB max at 3.3V
Operating Voltage	3.3V
Power consumption	8.5 ±2.5mA at 3.3V

Coax cable Type CFD200 Length 6' 7" / 2m Loss 0.33 dB/m @ 900 MHz 0.49 dB/m @ 2000 MHz 0.55 dB/m @ 2500 MHz

0.87 dB/m @ 5800 MHz
13/64" / 5.0mm
Half matt PVC, UV resistant
SMA male or QMA

Mounting	
Supported types	Panel
Mounting hole	1 11/16" / 43mm
Max panel thickness	19/32" / 15mm
Mechanical	
Product dimensions	Height: 1.42" / 36mm (spigot not included) Diameter: 5.12" / 130m
Packaged dimensions	8.90" x 8.46" x 4.29" / 226 x 215 x 109mm
Weight	2.43lbs / 1.1kg
Weight w/o RF cables	1.46lbs / 0.66kg
Radome material	UV stable PC+ABS
Package contents	
Antenna	ANT-107
Accesories	Double sided 3M adhesive pad Diameter: 5.08" / 129mm Thickness: 0.08"" / 2mm
Environmental, compliance	
IP rating	IP67
Operating temperature	-40° - 176°F / -40° - 80°C
Storage temperature	-40° - 176°F / -40° - 80°C
Compliance	Complies with RoHS requirements

4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Technical drawing (SMA connectors)





- Antenna Top Cover (PC+ABS) 1
 - Antenna Bottom Cover (PC+ABS)
 - Double sided 3M adhesive pad
- 4 Hexagon NUT (PC+ABS) 5
 - Cable (CFD-200)
- 6 Connector (SMA) 7
 - LTE cable marking (red color)
 - GPS cable marking (blue color)
 - Label

2

3

8

9

Index

4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Technical drawing (QMA connectors)



4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Cellular antenna VSWR



Cellular antenna Gain



4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Cellular antenna isolation



Cellular antenna efficiency



4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Radiation patterns (Azimuth)













4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Radiation patterns (Elevation 1)













th CPS Passiver

4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver



Radiation patterns (Elevation 2)













4x4 MIMO 5G Ready Cellular Antenna System with GPS Receiver





Installation recommendation

