



©Peplink | Pepwave. All rights reserved.

ref: 2401 - v02



Built for **5G**

Omni-directional 8x8 MIMO mobile antenna for the best performance.

Ultra Wide Bandwidth

Wide frequency range (600-6000MHz) supporting LTE and 5G connectivity in any location.

Robust Design

IP67 rated, low profile and durable housing.

•

peplink



Easy Installation

Surface, panel installation for various applications.

-

Flexible **Applications**

000

Public Safety & Mission Critical Connectivity Mobile Healthcare Transportation Connectivity

g () y 🛛 🖬



-





Specifications

Cellular		GPS	
Antenna Elements	8 elements	Frequency Range	1575-1602 MHz
Peak Gain & Frequencies	5.4dBi: 617-960MHz 7.5dBi: 1400-2700MHz 8.1dBi: 3400-4200MHz	Peak Gain	1.2 dBiC: 1575MHz 2.0 dBiC: 1602MHz
	8.7dBi: 5000-6000MHz	VSWR	< 1.6
VSWR	< 2.0 over 95% of the band	Output Return Loss	-10dB max
Feed Power Handling	10W	Gain: LNA	29 ± 3 dB
Input Impedance	50 Ω	Operating Voltage	3.3 V
Polarisation	Linear	Power Consumption	6 ±2 mA at 3.3 V
WiFi		Cable (LTE/5G, Wi-Fi)	
Antenna Elements	2 elements 6.0dBi: 2400-2500MHz	Туре	CFD-200
	7.4dBi: 5000-6000MHz	Loss	0.33 dB/m @ 900 MHz 0.49 dB/m @ 2000 MHz
VSWR	< 2.0		0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz
Feed Power Handling	10W	Diameter	0.2 in. / 5.0 mm
Input Impedance	50 Ω		
Polarisation	Linear	Jacket	Half matt PVC, UV resistant
		Termination	QMA male, SMA male, RP-SMA male (Wi-Fi)

Specifications are subject to change without notice.



Specifications

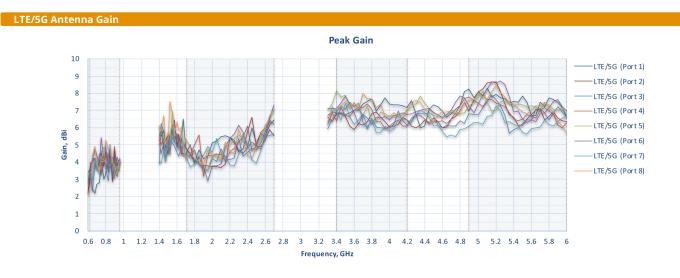
Cable (GPS)		Package Contents	
	G-174	Antenna	MB-82G
	.4 dB/m @ 1000 MHz .9 dB/m @ 1800 MHz	Accesories	Long and short thread Double sided 3M adhesive pad - Diameter: 15.2" / 386 mm
Diameter 0.	.1" / 2.7mm		- Thickness: 0.08" / 2 mm
Jacket H	lalf matt PVC, UV resistant		
Termination Q	MA male, SMA male		
		Environmental, Compli	ance
Mounting		IP Rating	IP67
	anel, surface (with additional mount) nagentic (with additional mount)	Operating Temperature	-40° - 176°F / -40° - 80°C
Mounting Hole 1.	.7" / 43mm	Storage Temperature	-40° - 176°F / -40° - 80°C
Max Panel Thickness u	p to 6.7" / 170mm	Compliance	ROHS, REACH, WEEE
Mechanical		Wind Survivability	137mph (220km/h)
(s	.46" / 62.5 mm - Height spigot not included) 6.83" / 427.4 mm - Diameter	Enclosure Flammability	UL 94 HB
		Cable Flammability	UL 758 (VW-1)
· · · J · · · · · ·	0.16" x 20.09" x 9.06" 12x510x230mm	UV Resistance	UL 746C (F1 long-term UV exposure)

Ordering Information

Product Code	Description
ANT-MB-82G-S-W-6	8xLTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, SMA (Cellular, GPS), RP-SMA (Wi-Fi), White, 6.5 ft / 2m
ANT-MB-82G-Q-W-6	8xLTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, QMA (Cellular, GPS), RP-SMA (Wi-Fi), White, 6.5 ft / 2m
ACW-667	Surface mount
ACW-668	Surface mount with magnets

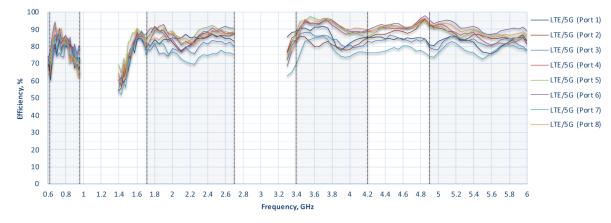


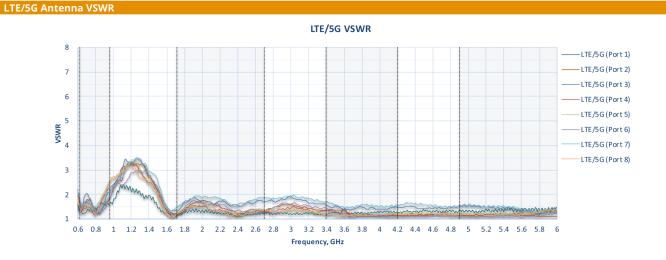
Graphs



LTE/5G Antenna Efficiency

Efficiency





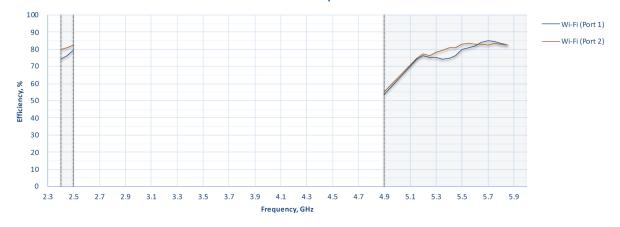


Graphs



Wi-Fi Antenna Efficiency

Efficiency

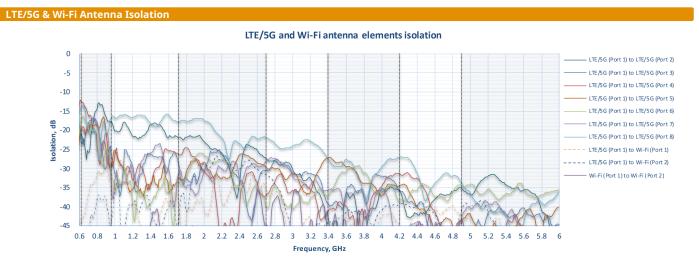


Wi-Fi Antenna VSWR

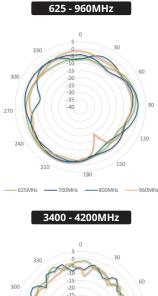
Wi-Fi VSWR 8 — Wi-Fi (Port 1) 7 6 800 S 3 2 1 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8 5 5.2 5.4 5.6 5.8 6 Frequency, GHz

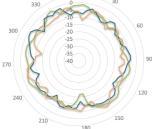


Graphs



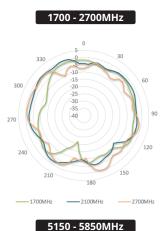
Radiation Pattern - LTE Radiation Patterns (Azimuth)



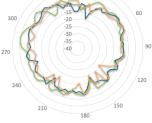


- 3800MHz

- 3400MHz



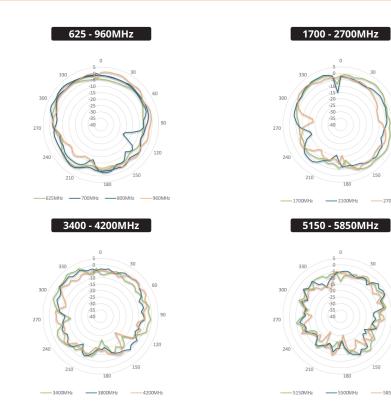




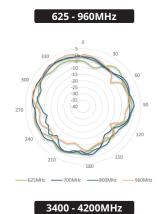


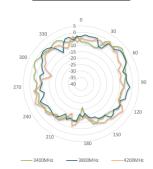
Graphs

Radiation Pattern - LTE Radiation Patterns (Elevation 1)



Radiation Pattern - LTE Radiation Patterns (Elevation 2)





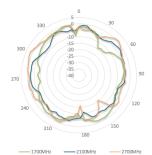


150

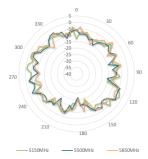
150

-5850MHz

2700MH



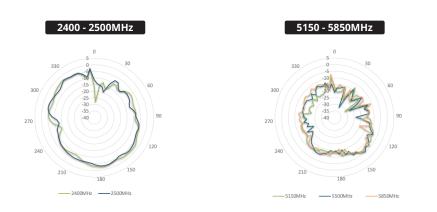




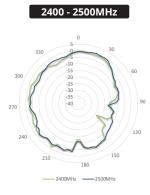


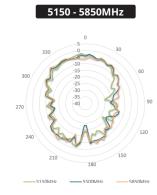
Graphs

Radiation Pattern - Wi-Fi Radiation Patterns (Azimuth)

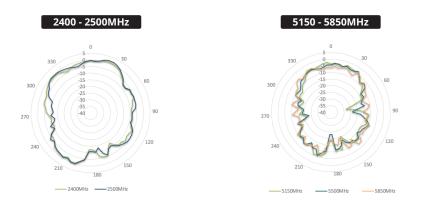


Radiation Pattern - Wi-Fi Radiation Patterns (Elevation 1)





Radiation Pattern - Wi-Fi Radiation Patterns (Elevation 2)





Installation Recommendation

Panel (Though Hole)

