











# **Specifications**

	GPS	
8 elements	Frequency Range	1575-1602 MHz
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
< 2.0 over 95% of the band	Output Return Loss	-10dB max
10W	Gain: LNA	29 ± 3 dB
50 Ω	Operating Voltage	3.3 V
Linear	Power Consumption	6 ±2 mA at 3.3 V
	Cable (LTE/5G, Wi-Fi)	
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
< 2.0		0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz
10W	Diameter	0.2 in. / 5.0 mm
50 Ω		
Linear	Jacket	Half matt PVC, UV resistant
Lilleai		
	5.4dBi: 617-960MHz 7.5dBi: 1400-2700MHz 8.1dBi: 3400-4200MHz 8.7dBi: 5000-6000MHz < 2.0 over 95% of the band  10W  50 Ω  Linear  2 elements 6.0dBi: 2400-2500MHz 7.4dBi: 5000-6000MHz < 2.0  10W  50 Ω	8 elementsFrequency Range5.4dBi: 617-960MHz 7.5dBi: 1400-2700MHz 8.1dBi: 3400-4200MHz 8.7dBi: 5000-6000MHzVSWR< 2.0 over 95% of the bandOutput Return Loss10WGain: LNA50 ΩOperating VoltageLinearPower Consumption2 elements 6.0dBi: 2400-2500MHz 7.4dBi: 5000-6000MHzType< 2.0Loss10WDiameter

Specifications are subject to change without notice.



# **Specifications**

**Termination** 

**Max Panel Thickness** 

Cable (di 3)	
Туре	RG-174
Loss	3.4 dB/m @ 1000 MHz 4.9 dB/m @ 1800 MHz
Diameter	0.1" / 2.7mm
Jacket	Half matt PVC, UV resistant

Mounting

Supported Types Panel, surface (with additional mount) magentic (with additional mount)

Mounting Hole 1.7" / 43mm

up to 6.7" / 170mm

QMA male, SMA male

Product Dimensions

2.46" / 62.5 mm - Height
(spigot not included)
16.83" / 427.4 mm - Diameter

Packaged Dimensions

20.16" x 20.09" x 9.06"
512x510x230mm

**Radome Material** UV stable PC

**Package Contents** 

Antenna MB-82G

Accessories Long and short thread Double sided 3M adhesive pad

- Diameter: 15.2" / 386 mm - Thickness: 0.08" / 2 mm

**Environmental, Compliance** 

IP Rating IP67

Operating -40° - 176°F / -40° - 80°C

**Temperature** 

Storage Temperature -40° - 176°F / -40° - 80°C

Compliance ROHS, REACH, WEEE

Wind Survivability 137mph (220km/h)

Enclosure UL 94 HB

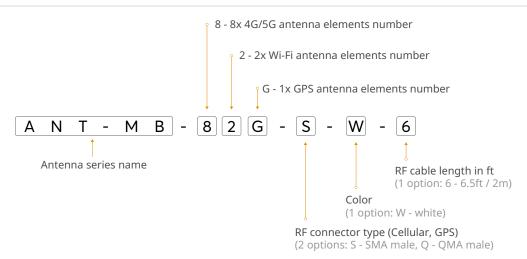
Flammability

Cable Flammability UL 758 (VW-1)

**UV Resistance** UL 746C (F1 long-term UV exposure)

Salt Spray MIL-STD 810F/ASTM 8117

# **Ordering Information**



Product Code Description

ANT-MB-82G-S-W-6 8x LTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, SMA (Cellular, GPS), RP-SMA (Wi-Fi), White, 6.5ft / 2m

ANT-MB-82G-Q-W-6 8x LTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, QMA (Cellular, GPS), RP-SMA (Wi-Fi), White, 6.5ft / 2m

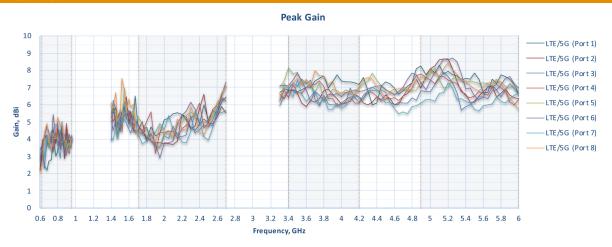
ACW-667 Surface mount

ACW-668 Surface mount with magnets

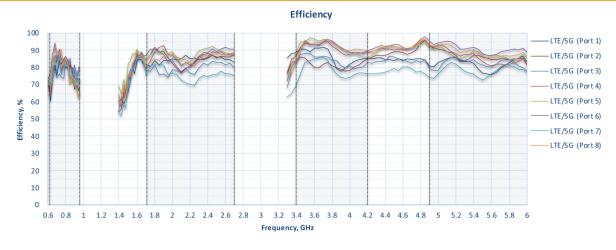


# Graphs

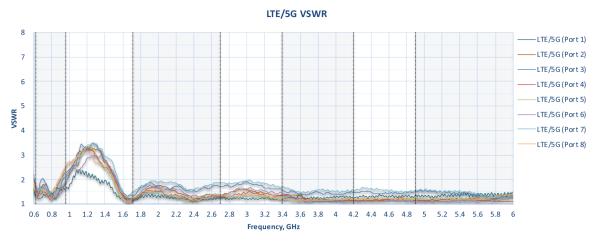
## LTE/5G Antenna Gain



## LTE/5G Antenna Efficiency



## LTE/5G Antenna VSWR





# Graphs

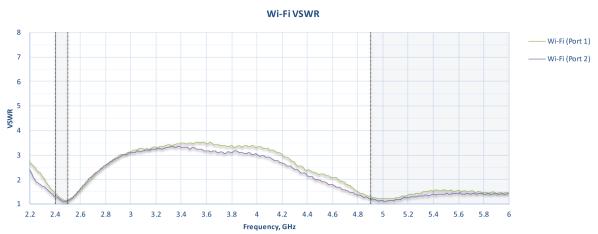
## Wi-Fi Antenna Gain



## Wi-Fi Antenna Efficiency



## Wi-Fi Antenna VSWR



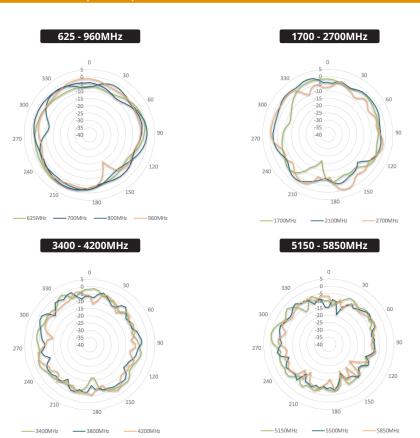


# **Graphs**

## LTE/5G & Wi-Fi Antenna Isolation

# | Companies | Comp

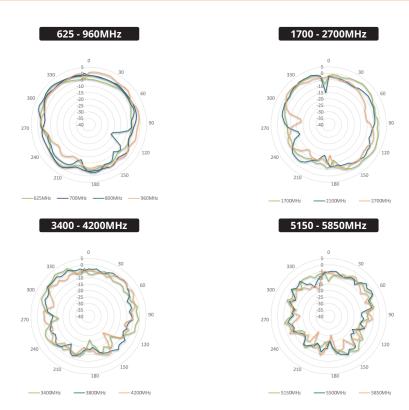
Radiation Pattern - LTE Radiation Patterns (Azimuth)



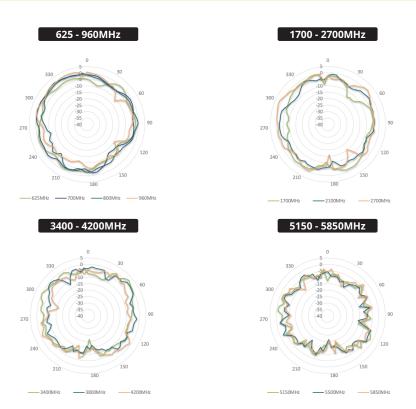


# Graphs

## Radiation Pattern - LTE Radiation Patterns (Elevation 1)



## Radiation Pattern - LTE Radiation Patterns (Elevation 2)

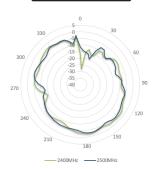




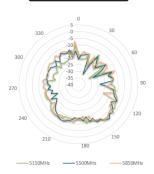
# Graphs

## Radiation Pattern - Wi-Fi Radiation Patterns (Azimuth)

## 2400 - 2500MHz

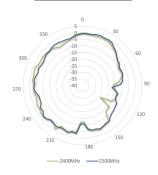


## 5150 - 5850MHz

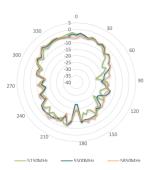


Radiation Pattern - Wi-Fi Radiation Patterns (Elevation 1)

2400 - 2500MHz

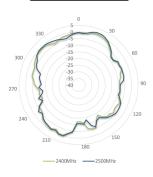


5150 - 5850MHz

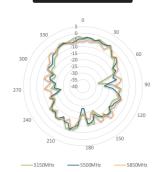


Radiation Pattern - Wi-Fi Radiation Patterns (Elevation 2)

2400 - 2500MHz



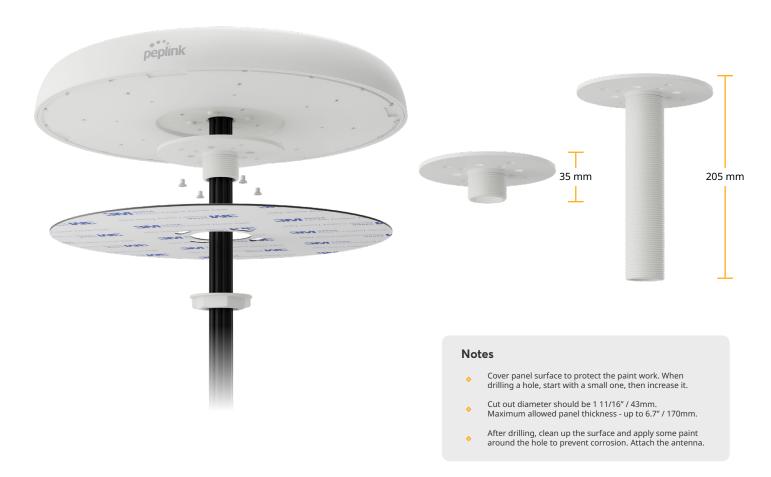
5150 - 5850MHz





# **Installation Recommendation**

## Panel (Though Hole)



## **Magnetic Mount**

## Surface Mount

