



Mobility 826







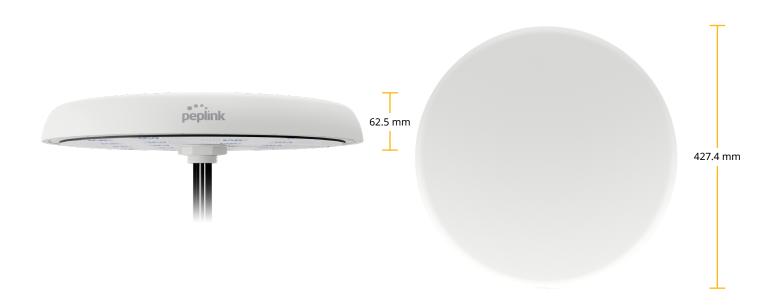












Specifications

Cellular		GPS	
Antenna Elements	8 elements	Frequency Range	1575-1602 MHz
Peak Gain & Frequencies	6.0dBi: 617-960MHz 7.1dBi: 1710-2700MHz 8.7dBi: 3400-4200MHz	Peak Gain	1.2 dBiC: 1575MHz 2.0 dBiC: 1602MHz
	8.8dBi: 5000-6000MHz	VSWR	< 2.0
VSWR	< 2.5 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)

Type

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

Termination QMA male, SMA male

Mounting

Supported Types Panel, surface (with additional mount)

magentic (with additional mount)

Mounting Hole 1.7" / 43mm

Max Panel Thickness up to 6.7" / 170mm

Mechanical

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

Accesories Long and short thread

Double sided 3M adhesive pad - Diameter: 15.2" / 386 mm

- Thickness: 0.08" / 2 mm

Environmental, Compliance

IP Rating IP6

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 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 for Mobility 82G

ACW-668 Magnetic Mount for Mobility 82G

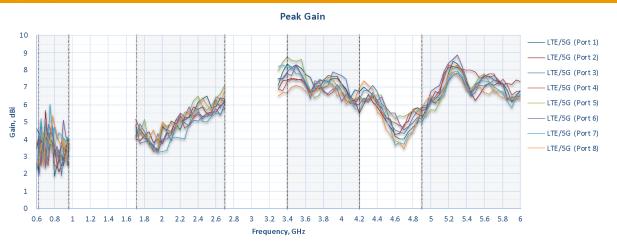
Mobility 82G



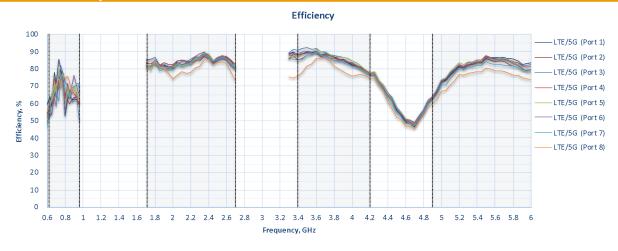


Graphs

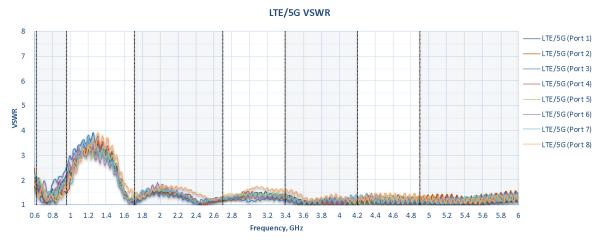
LTE/5G Antenna Gain



LTE/5G Antenna Efficiency



LTE/5G Antenna VSWR



Mobility 82G



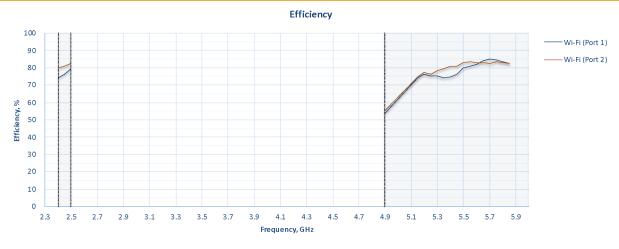


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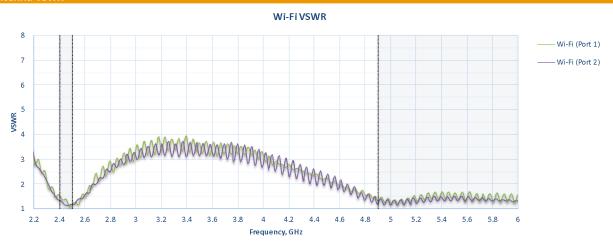




Wi-Fi Antenna Efficiency



Wi-Fi Antenna VSWR



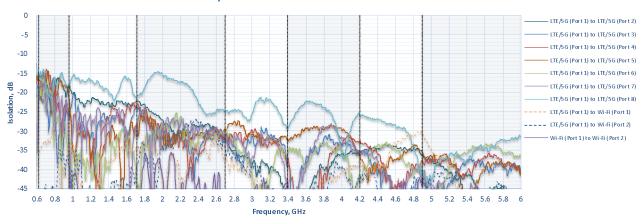




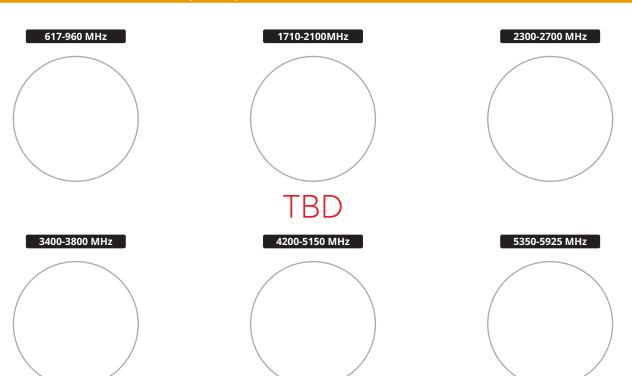
Graphs







Radiation Pattern - LTE Radiation Patterns (Azimuth)







Graphs

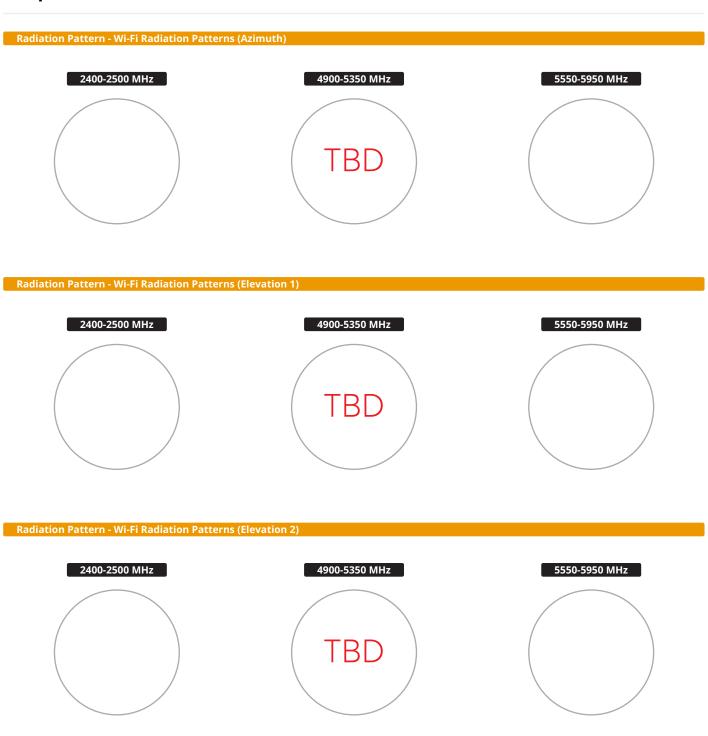
Radiation Pattern - LTE Radiation Patterns (Elevation 1) 617-960 MHz 1710-2100MHz 2300-2700 MHz **TBD** 3400-3800 MHz 4200-5150 MHz 5350-5925 MHz Radiation Pattern - LTE Radiation Patterns (Elevation 2) 617-960 MHz 1710-2100MHz 2300-2700 MHz 3400-3800 MHz 4200-5150 MHz 5350-5925 MHz







Graphs

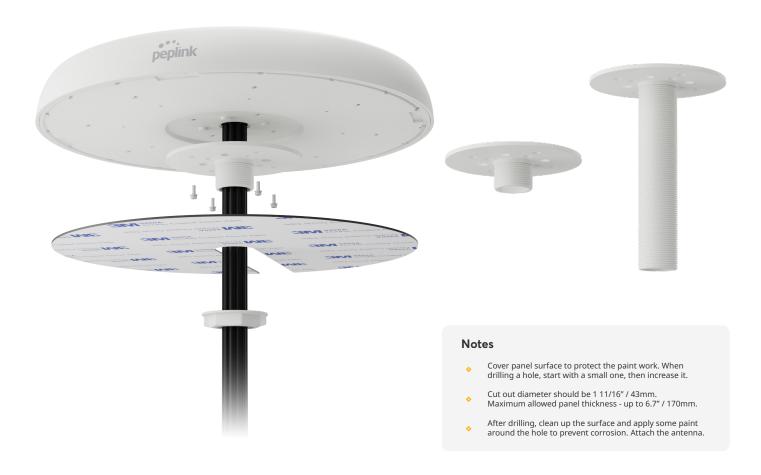






Installation Recommendation

Panel (Though Hole)



Magnetic Mount

Surface Mount



