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ref: 2407 - v05



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.

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Easy Installation

Surface, panel installation for various applications.

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Flexible **Applications**

Public Safety & Mission Critical Connectivity Mobile Healthcare Transportation Connectivity

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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
VSWR	< 2.0		0.49 dB/m @ 2000 MHz 0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz
Feed Power Handling	10W	D ¹	-
Input Impedance	50 Ω	Diameter	0.2 in. / 5.0 mm
Polarisation	Linear	Jacket	Half matt PVC, UV resistant
		Termination	QMA male, SMA male, RP-SMA male (Wi-Fi)

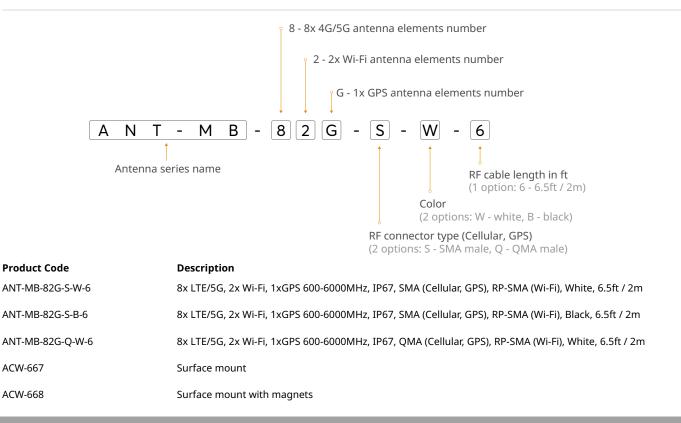
Specifications are subject to change without notice.



Specifications

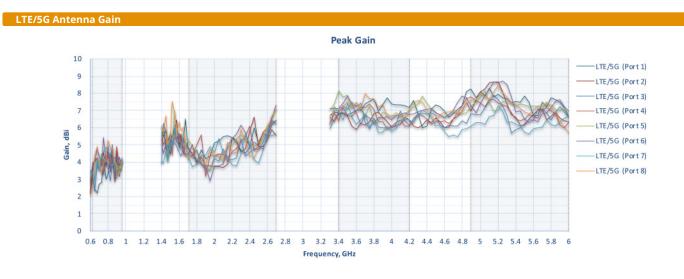
Cable (GPS)		Package Contents		
Туре	RG-174	Antenna	MB-82G	
Loss	3.4 dB/m @ 1000 MHz 4.9 dB/m @ 1800 MHz	Accessories	Long and short thread Double sided 3M adhesive pad - Diameter: 15.2" / 386 mm	
Diameter	0.1" / 2.7mm		- Thickness: 0.08" / 2 mm	
Jacket	Half matt PVC, UV resistant			
Termination	QMA male, SMA male			
		Environmental, Compliance		
Mounting		IP Rating	IP67	
Supported Types	Panel, surface (with additional mount) magentic (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	up to 6.7" / 170mm	Compliance	ROHS, REACH, WEEE	
Mechanical		Wind Survivability	137mph (220km/h)	
Product Dimensions	2.46" / 62.5 mm - Height (spigot not included) 16.83" / 427.4 mm - Diameter	Enclosure Flammability	UL 94 HB	
		Cable Flammability	UL 758 (VW-1)	
Packaged Dimensions	20.16" x 20.09" x 9.06" 512x510x230mm	UV Resistance	UL 746C (F1 long-term UV exposure)	
Radome Material	UV stable PC	Salt Spray	MIL-STD 810F/ASTM 8117	

Ordering Information

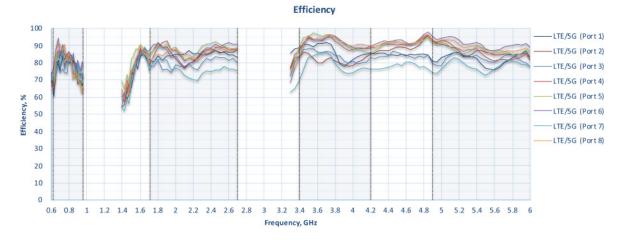




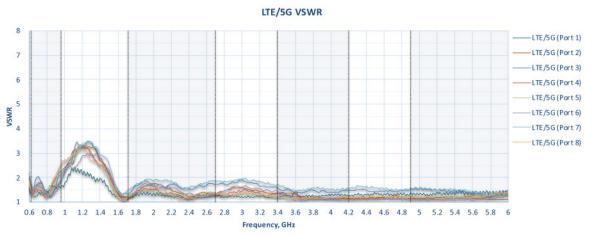
Graphs



LTE/5G Antenna Efficiency



LTE/5G Antenna VSWR



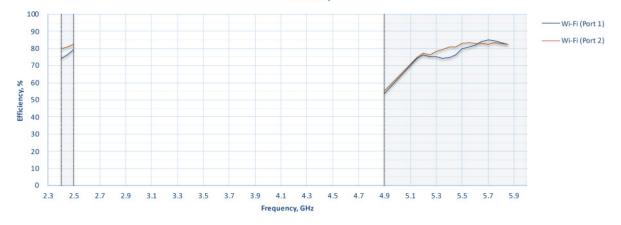


Graphs



Wi-Fi Antenna Efficiency

Efficiency

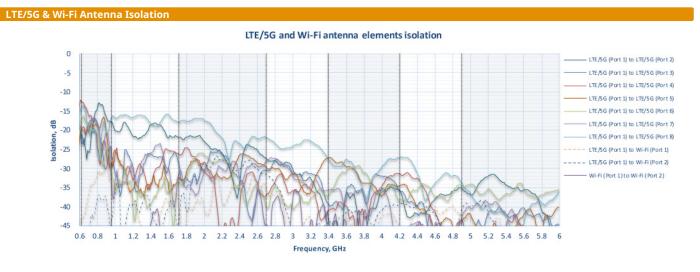


Wi-Fi Antenna VSWR

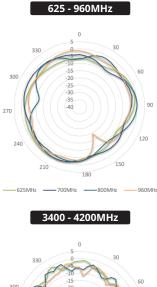


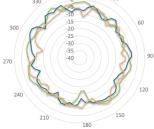


Graphs

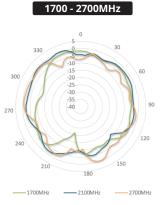


Radiation Pattern - LTE Radiation Patterns (Azimuth)

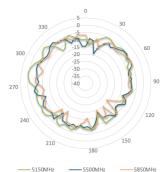




_____ 3400MHz _____ 3800MHz _____ 4200MHz



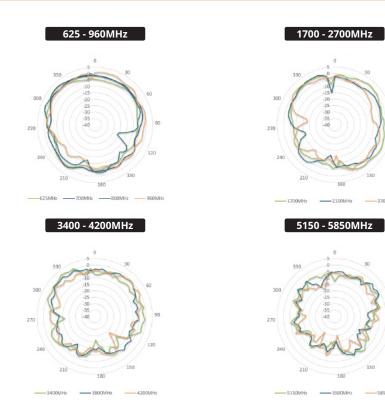
5150 - 5850MHz



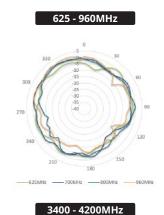


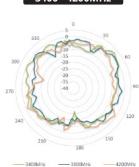
Graphs

Radiation Pattern - LTE Radiation Patterns (Elevation 1)



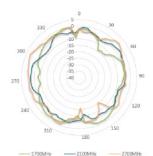
Radiation Pattern - LTE Radiation Patterns (Elevation 2)

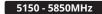


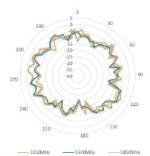




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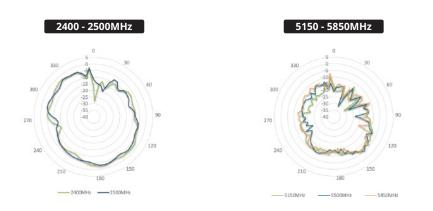




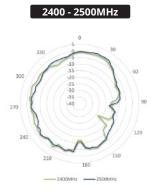


Graphs

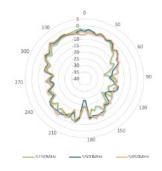
Radiation Pattern - Wi-Fi Radiation Patterns (Azimuth)



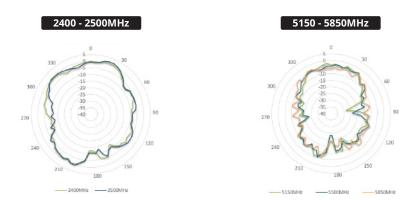
Radiation Pattern - Wi-Fi Radiation Patterns (Elevation 1)







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





Installation Recommendation

Panel (Though Hole)





