



Sierra Wireless AirLink® Antenna: 6-in-1 Dome

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The 6-in-1 Dome has been tested and certified to operate with AirLink LTE routers and gateways.

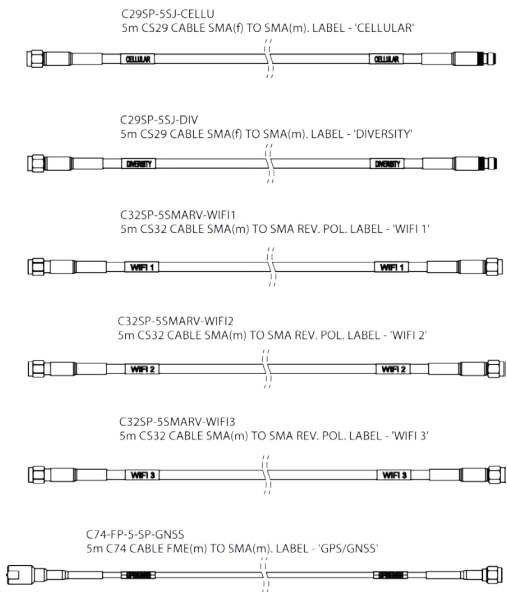
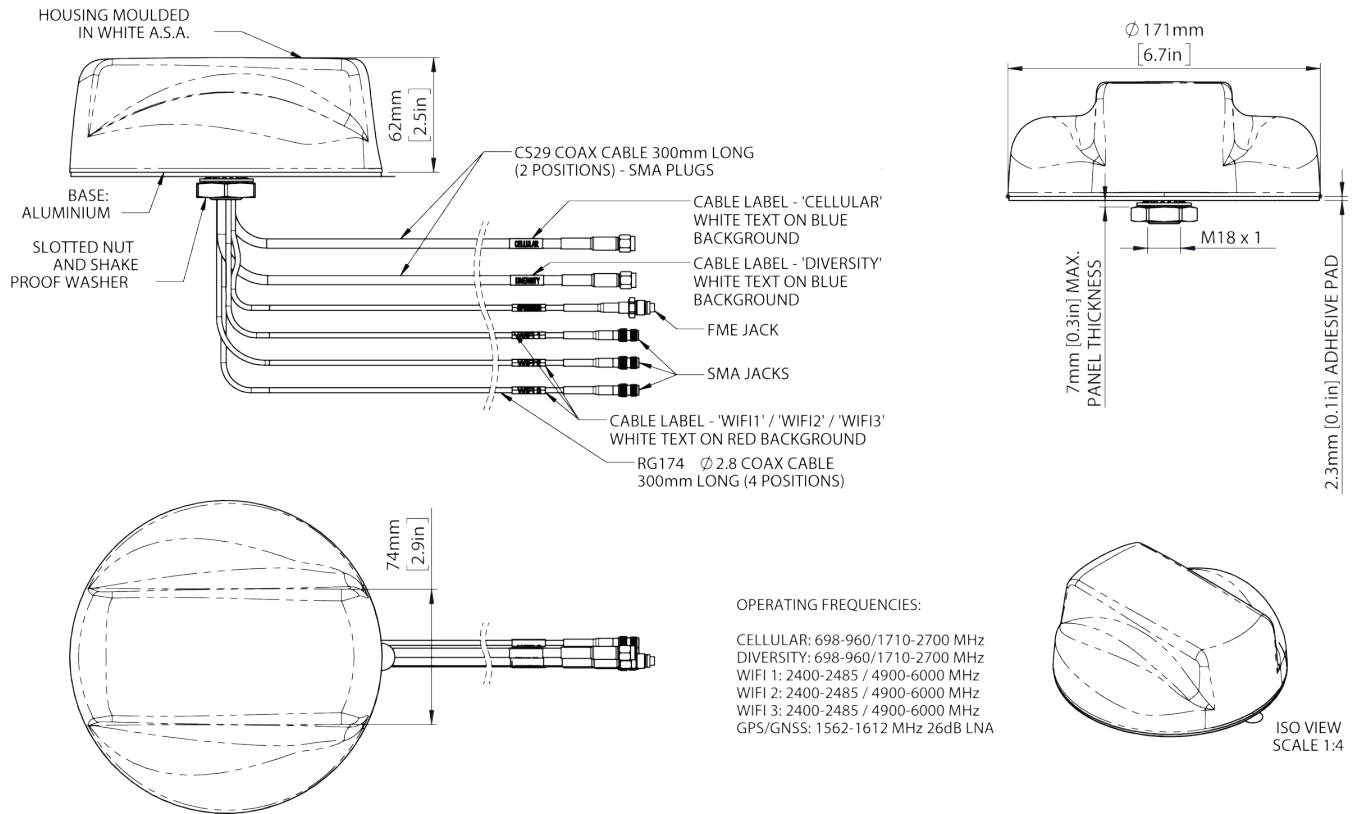
It has a low profile design that contains six isolated high performance antenna elements in a single housing for optimal coverage; two ultra-wideband elements spanning 698-2700MHz support MiMo/diversity at LTE frequencies; a high performance GNSS antenna with an integrated 26dB gain LNA, and three dualband 2.4/5GHz Wi-Fi elements that provide 3x3 MiMo Wi-Fi.

The antenna is ground plane independent, and maintains a high level of performance even when mounted on a non-metallic surface.

		Specification	
PART NO.		6001121	
ELECTRICAL DATA			
Frequency Range	Elements 1 & 2	698-960 / 1710-2700MHz	
	Elements 3,4 & 5	2.4/4.9-6GHz	
Operational Bands	Elements 1 & 2	2G/3G/4G LTE	
	Elements 3,4 & 5	2.4/5.0GHz Wi-Fi	
Peak gain: Isotropic	Elements 1 & 2	698-960MHz	2.3dBi
		1710-2700MHz	5dBi
	Elements 3,4 & 5	2.4/4.9-6.0GHz	2dBi
Isolation	Cellular	> 15dB	
Correlation Co-efficient	< 0.1		
Polarisation	Vertical		
Impedance	50Ω		
Max Input Power	25W		

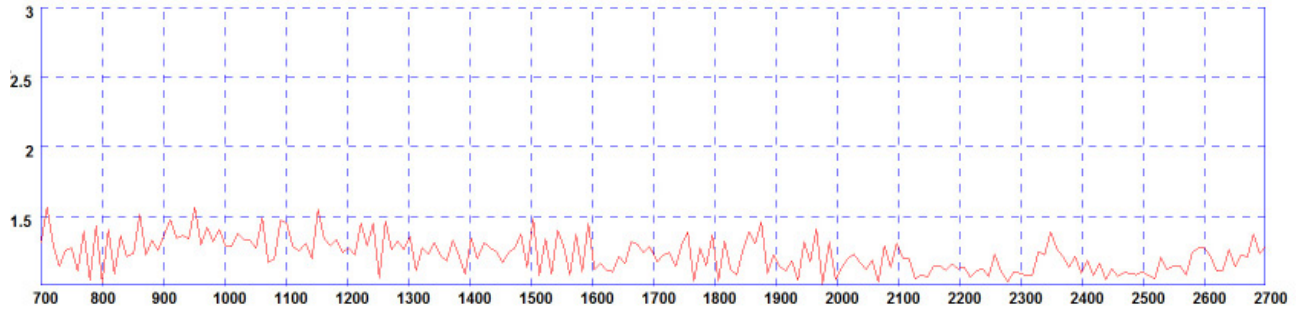
		Specification
GPS/GNSS DATA		
Frequency Range	Element 6	1562-1612MHz
VSWR		<2:1 ± 4MHz
Gain: LNA		26dB
Operating Voltage		3-5V DC
Approval		E11
Current		<20mA
MECHANICAL DATA		
Dimensions	Height	62mm (2.4")
	Diameter	176mm (6.7")
Operating Temp		-30° / +80°C (-22° / 176°F)
Material		ASA & Diecast Aluminium
Colour		White
Ingress Protection		IP66
Weight		1282g
MOUNTING DATA		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
CABLE DATA		
Cell / LTE Cables	Type	CS29
	Length	5m (16ft)
	Termination	SMA Plug
GPS Cable	Type	CS29
	Length	5m (16ft)
	Termination	SMA Plug
Wi-Fi Cables	Type	CS32
	Length	5m (16ft)
	Termination	RP-SMA Plug

TECHNICAL DRAWING



VSWR

Typical VSWR (Elements 1 & 2)*



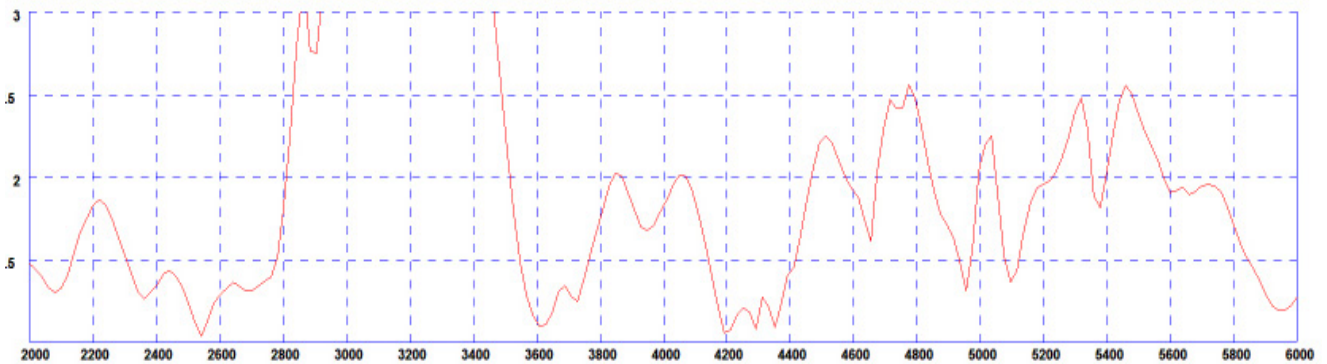
* VSWR measured with 5m (16') of cable.

Typical Isolation (elements 1 & 2)*



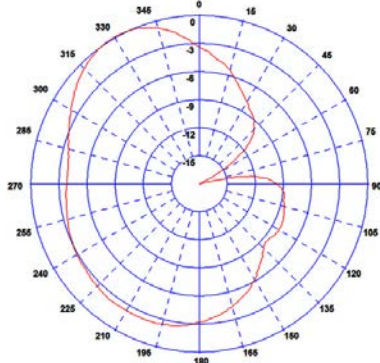
* Isolation measured without a groundplane or additional cable

Typical VSWR - (Elements 3, 4 & 5)

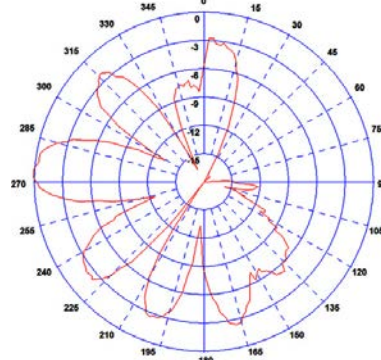


* VSWR measured without additional cable

Typical H-plane - Element 3 (2400MHz)

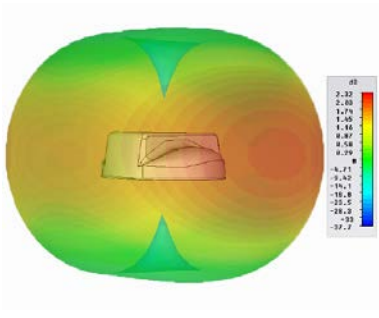


Typical H-plane - Element 3 (5400MHz)

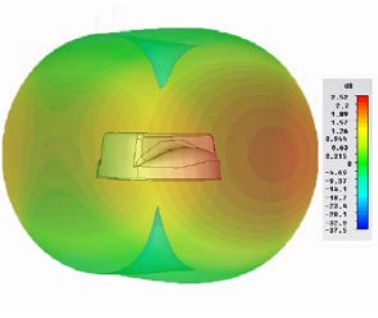


ELECTRICAL DATA

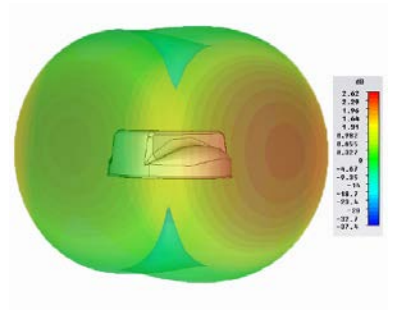
Typical 3D Pattern - Elements 1&2 700MHz



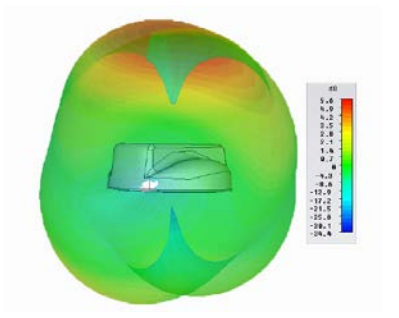
Typical 3D Pattern - Elements 1&2 800MHz



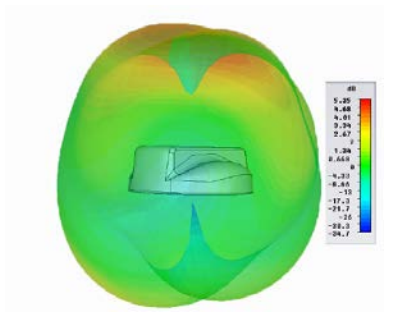
Typical 3D Pattern - Elements 1&2 900MHz



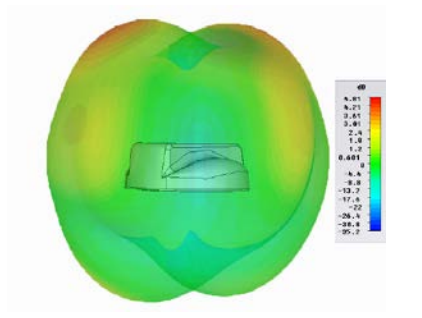
Typical 3D Pattern - Elements 1&2



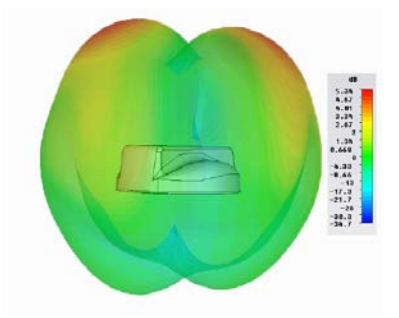
Typical 3D Pattern - Elements 1&2



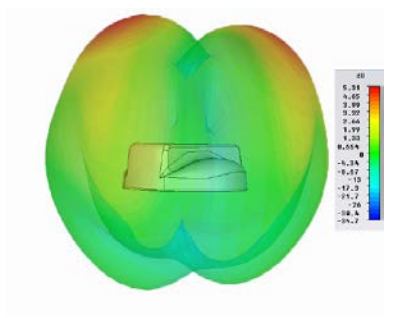
Typical 3D Pattern - Elements 1&2



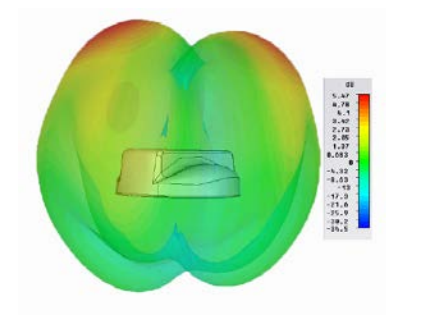
Typical 3D Pattern - Elements 1&2



Typical 3D Pattern - Elements 1&2



Typical 3D Pattern - Elements 1&2



N.B. All pattern and gain measurements taken on a 400 x 400mm (2' x 2') ground plane without additional cable.

For more information contact us:



USAT | Connect What's Critical
 605 Eastowne Drive, Chapel Hill, NC 27514

Phone: (888) 550-8728
 Email: info@usatcorp.com
 Web: https://usatcorp.com

