

Sierra Wireless Antenna – 5-in-1 Dome

The 5-in-1 Dome is a custom single antenna solution for the RV55 Dual Wi-Fi, tested and certified for mobile application.

The antenna has a low-profile design that contains five isolated high performance antenna elements in a single housing for optimal coverage; two ultra-wideband elements spanning 617-6000MHz; a high performance GNSS antenna with an integrated 26dB gain LNA; and two dual band 2.4/5GHz omni-directional Wi-Fi elements.

		Specification	
PART NO.			
		6001275	
ELECTRICAL DATA			
Frequency Range	3G/4G Elements	617-960MHz / 1710-6000	
	Wi-Fi Elements	2.4/4.9-6GHz	
Peak gain: Isotropic*	3G/4G Elements	617-960MHz 1710-3800MHz 4900-6000MHz	4dBi 8dBi 9dBi
	Wi-Fi Elements	2.4 GHz 4.9-6.0GHz	9dBi 9dBi
Isolation*	3G/4G Elements	> 15dB	
	Wi-Fi Elements	> 18dB	
Typical Efficiency	3G/4G Elements	> 50%	
	Wi-Fi Elements	> 70%	
Correlation Co-efficient	3G/4G Elements	<0.2	
Pattern		Omni-directional	
Impedance		50Ω	

*Simulated off a groundplane and does not include cable attenuation

DATASHEET – Antenna 5-in-1 Dome

		Specification
GPS/GNSS DATA		
Frequency Range		1562-1612MHz
VSWR		<2.1 ± 4MHz
Gain: LNA		26dB
Typical Noise Figure		-2.7dB
Operating Voltage		3-5V DC
Typical Current		15mA
MECHANICAL DATA		
Dimensions	Height	80mm (3.1")
	Diameter	180mm (7.1")
Operating Temp		-40°/ +80°C (-40° / +176°F)
Colour		Black
Ingress Protection		IP69K
MOUNTING DATA		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
CABLE DATA		
Cell / LTE Cables	Type	C32
	Length	5m (16')
	Termination	SMA (m)
GPS Cable	Type	CS29
	Length	5m (16')
	Termination	SMA (m)
Wi-Fi Cables	Type	C32
	Length	5m (16')
	Termination	RP-SMA Plug

About Sierra Wireless

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is a world leading IoT solutions provider that combines devices, network services, and software to unlock value in the connected economy. Companies globally are adopting 4G, 5G, and LPWA solutions to improve operational efficiency, create better customer experiences, improve their business models, and create new revenue streams. Sierra Wireless works with its customers to develop the right industry-specific solution for their IoT deployments, whether this is an integrated solution to help connect edge devices to the cloud, a software/API service to manage processes with billions of connected assets, or a platform to extract real-time data to improve business decisions. With more than 25 years of cellular IoT experience, Sierra Wireless is the global partner customers trust to deliver them their next IoT solution.

For more information, visit www.sierrawireless.com.

Sierra Wireless, the Sierra Wireless logo, AirPrime, AirLink, AirVantage and the red wave design are trademarks of Sierra Wireless. Other registered trademarks that appear on this brochure are the property of the respective owners. © 2021 Sierra Wireless, Inc. 2022.08.04