



Sierra Wireless Antenna – 9-in-1 Dome

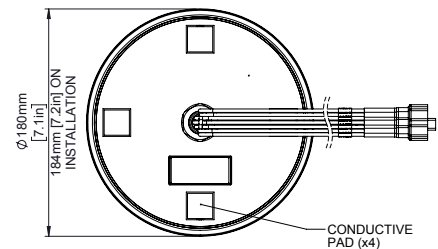
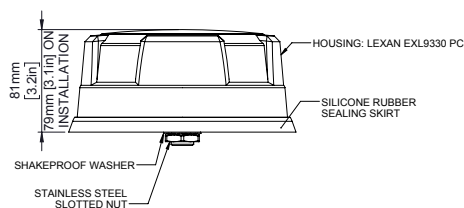
The 9-in-1 Dome is a custom 5G single antenna solution for the AirLink XR90, tested and certified for mobile applications.

The antenna has a low-profile design that contains nine isolated high-performance antenna elements in a single housing for optimal coverage; four ultra-wideband elements spanning 617-6000MHz; a high performance GNSS antenna with an integrated 26dB gain LNA; and 4x4 MIMO dual band 2.4/5GHz Wi-Fi elements.

		Specification	
PART NO.		6001399 (Black)/6001400 (White)	
ELECTRICAL DATA			
Frequency Range	4G/5G Elements	617-960MHz / 1710-6000MHz	
	Wi-Fi Elements	2.4/4.9-6GHz	
Peak gain: Isotropic*	4G/5G Elements	617-960MHz	4dBi
		1710-3800MHz	6dBi
		4900-6000MHz	6dBi
	Wi-Fi Elements	2.4 GHz	5dBi
		4.9-6.0GHz	7dBi
Isolation*	4G/5G Elements	> 10dBm	
	Wi-Fi Elements	> 12dBm	
Typical Efficiency	4G/5G Elements	617-960MHz	>50%
		1710-3800MHz	>60%
		4900-6000MHz	>35%
	Wi-Fi Elements	2.4GHz	>60%
		5.0GHz	>45%
Correlation Co-efficient	4G/5G Elements	<0.2	
Pattern	Omni-directional		
Impedance	50Ω		

*Simulated off a groundplane and does not include cable attenuation

		Specification
GPS/GNSS DATA		
Frequency Range		1562-1612MHz
VSWR		<2.1 ± 4MHz
Gain: LNA		26dB
Out of Band Rejection		> 35dB
Rejection at 787MHz		> 50dB
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/White
Ingress Protection		IP69K
MOUNTING DATA		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
CABLE DATA		
Cellular Cables	Type	C32
	Length	5m (16')
	Termination	FAKRA D (Purple)
GPS Cable	Type	CS29
	Length	5m (16')
	Termination	FAKRA C (Blue)
Wi-Fi Cables	Type	C32
	Length	5m (16')
	Termination	FAKRA I (Beige)



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.

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