



## Sierra Wireless Antenna – 9-in-1 Dome

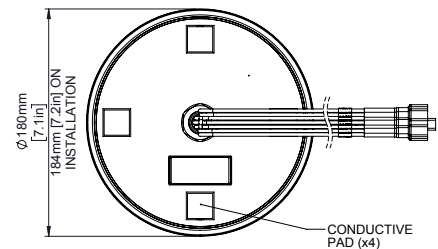
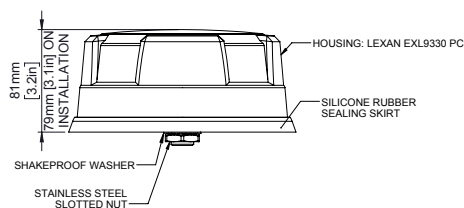
The 9-in-1 Dome is a custom 5G single antenna solution for the AirLink XR90, tested and certified for mobile applications.

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

\*Simulated off a groundplane and does not include cable attenuation

		Specification
<b>GPS/GNSS DATA</b>		
<b>Frequency Range</b>		1562-1612MHz
<b>VSWR</b>		<2.1 ± 4MHz
<b>Gain: LNA</b>		26dB
<b>Out of Band Rejection</b>		> 35dB
<b>Rejection at 787MHz</b>		> 50dB
<b>Typical Noise Figure</b>		-2.7dB
<b>Operating Voltage</b>		3-5V DC
<b>Typical Current</b>		15mA
<b>MECHANICAL DATA</b>		
<b>Dimensions</b>	Height	80mm (3.1")
	Diameter	180mm (7.1")
<b>Operating Temp</b>		-40° / +80°C (-40° / +176°F)
<b>Colour</b>		Black/White
<b>Ingress Protection</b>		IP69K
<b>MOUNTING DATA</b>		
<b>Mounting Type</b>		Bolt Mount
<b>Mounting Hole</b>		19mm (3/4")
<b>CABLE DATA</b>		
<b>Cellular Cables</b>	Type	C32
	Length	5m (16')
	Termination	FAKRA D (Purple)
<b>GPS Cable</b>	Type	CS29
	Length	5m (16')
	Termination	FAKRA C (Blue)
<b>Wi-Fi Cables</b>	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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