





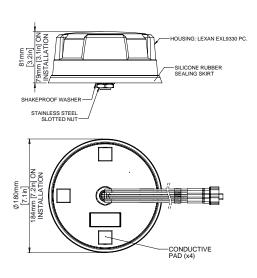
Sierra Wireless AirLink® Antenna: 9-in-1 Dome

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)/600	1400 (White)
ELECTRICAL DATA			
Frequency Range	4G/5G Elements	617-960MHz / 1710-6000MHz 2.4/4.9-6GHz	
	Wi-Fi Elements		
Peak gain: Isotropic*	4G/5G Elements	617-960MHz 1710-3800MHz 4900-6000MHz	4dBi 6dBi 6dBi
	Wi-Fi Elements	2.4 GHz 4.9-6.0GHz	5dBi 7dBi
Isolation*	4G/5G Elements	> 10dBm	
	Wi-Fi Elements	> 12dBm	
Typical Efficiency	4G/5G Elements	617-960MHz 1710-3800MHz 4900-6000MHz	>50% >60% >35%
	Wi-Fi Elements	2. 4GHz 5.0GHz	>60% >45%
Correlation Co-efficient	4G/5G Elements	<0.2	
Pattern		Omni-directional	
Impedance		50Ω	

^{*}Simulated off a groundplane and does not include cable attenuation



Prequency Range			Specification	
VSWR	GPS/GNSS DATA			
Cain: LNA 26dB	Frequency Range		1562-1612MHz	
Out of Band Rejection > 35dB Rejection at 787MHz > 50dB Typical Noise Figure -2.7dB Operating Voltage 3-5V DC Typical Current 15mA MECHANICAL DATA Bomm (3.1") Dimensions Height 80mm (3.1") Operating Temp -40°/ +80°C (-40°/+176°F) Colour Black/White Ingress Protection IP69K MOUNTING DATA Mounting Type Mounting Hole 19mm (3/4") CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) GPS Cable Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')	VSWR		<2.1 ± 4MHz	
Page	Gain: LNA	•	26dB	
Fejection at 787MHz > 50dB Typical Noise Figure -2.7dB Operating Voltage 3-5V DC Typical Current 15mA MECHANICAL DATA Bomm (3.1") Dimensions Height 80mm (3.1") Operating Temp -40°/+80°C (-40°/+176°F) Colour Black/White Ingress Protection IP69K MOUNTING DATA Bolt Mount Mounting Type Bolt Mount Mounting Hole 19mm (3/4") CABLE DATA 1ype Cellular Cables Length 5m (16') Termination FAKRA D (Purple) GPS Cable Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')	Out of Band Rejection	•	> 35dB	
Operating Voltage 3-5V DC Typical Current 15mA MECHANICAL DATA Dimensions Height 80mm (3.1") Dimensions 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 Length 5m (16') Termination FAKRA D (Purple) Type CS29 GPS Cable Length 5m (16') Termination FAKRA C (Blue) Type C32 Wi-Fi Cables Length 5m (16')			> 50dB	
Typical Current	Typical Noise Figure		-2.7dB	
MECHANICAL DATA	Operating Voltage		3-5V DC	
Height 80mm (3.1") Diameter 180mm (7.1") Operating Temp -40°/ +80°C (-40° / +176°F) Colour Black/White Ingress Protection IP69K MOUNTING DATA IP69K Mounting Type Bolt Mount Mounting Hole 19mm (3/4") CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) GPS Cable Length 5m (16') Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')	Typical Current	•	15mA	
Diameter 180mm (7.1") Operating Temp -40°/ +80°C (-40° / +176°F) Colour Black/White Ingress Protection IP69K MOUNTING DATA P69K Mounting Type Bolt Mount Mounting Hole 19mm (3/4") CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) GPS Cable Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')	MECHANICAL DATA		22 (2.10)	
Diameter 180mm (7.1") Operating Temp	Dimensions			
Colour Black/White Ingress Protection IP69K MOUNTING DATA Bolt Mount Mounting Type Bolt Mount Mounting Hole 19mm (3/4") CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) Type CS29 Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')		Diameter	180mm (7.1")	
Ingress Protection	Operating Temp		-40°/ +80°C (-40° / +176°F)	
MOUNTING DATA Mounting Type	Colour	•••••	Black/White	
Mounting Type Bolt Mount Mounting Hole 19mm (3/4") CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) Type CS29 Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')	Ingress Protection		IP69K	
Mounting Hole 19mm (3/4") CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) Type CS29 Length 5m (16') Termination FAKRA C (Blue) Type C32 Wi-Fi Cables Length 5m (16')				
CABLE DATA Type C32 Cellular Cables Length 5m (16') Termination FAKRA D (Purple) Type CS29 Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')				
Cellular Cables Type C32 Length 5m (16') Termination FAKRA D (Purple) Type CS29 Length 5m (16') Termination FAKRA C (Blue) Wi-Fi Cables Length 5m (16')			19mm (3/4")	
Cellular Cables Length 5m (16') Termination FAKRA D (Purple) Type C529 Length 5m (16') Termination FAKRA C (Blue) Type C32 Wi-Fi Cables Length 5m (16')	CABLE DATA	Type	C32	
Termination FAKRA D (Purple) Type CS29 Length 5m (16') Termination FAKRA C (Blue) Type C32 Wi-Fi Cables Length 5m (16')	Cellular Cables		5m (16′)	
GPS Cable Length 5m (16') Termination FAKRA C (Blue) Type C32 Wi-Fi Cables Length 5m (16')			FAKRA D (Purple)	
Termination FAKRA C (Blue) Type C32 Wi-Fi Cables Length 5m (16')	GPS Cable	Туре	CS29	
Type C32 Wi-Fi Cables Length 5m (16')		Length	5m (16′)	
Wi-Fi Cables Length 5m (16')		Termination	FAKRA C (Blue)	
_	Wi-Fi Cables	Туре	C32	
Termination FAKRA I (Beige)		Length	5m (16')	
		Termination	FAKRA I (Beige)	

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About Sierra Wireless

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is the leading IoT solutions provider that combines devices, network and software to unlock value in the connected economy. Companies globally are adopting IoT to improve operational efficiency, create better customer experiences, improve their business models and create new revenue streams. Whether it's a solution to help a business securely connect edge devices to the cloud, or a software/API solution to help manage processes associated with billions of connected assets, or a platform to extract real-time data to make the best business decisions, Sierra Wireless will work with you to create the right industry-specific solution for your next IoT endeavor. Sierra Wireless has more than 1,300 employees globally and operates R&D centers in North America, Europe and Asia.

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