



## Semtech Antenna – 5-in-1 Dome 5G

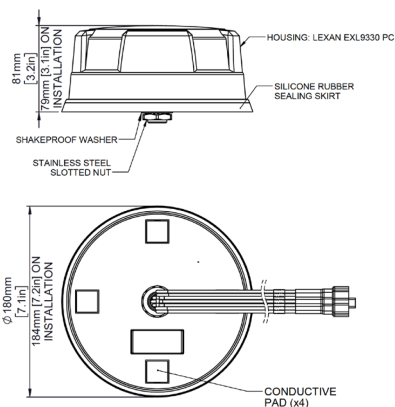
The 5-in-1 Dome is a 5G single antenna solution for the AirLink XR80/90 second radio. Tested and certified for mobile and fixed application.

The antenna has a low-profile design that contains five isolated high-performance antenna elements in a single housing for optimal coverage, four ultra-wideband elements spanning 617-6000MHz, and a high performance GNSS antenna with an integrated 26dB gain LNA. This antenna is ideally suited to pair with XP (XR 5G cartridge).

		Specification	
PART NO.		6001443 (Black)/6001445 (White)	
ELECTRICAL DATA			
Frequency Range	4G/5G Elements	617-960MHz / 1710-6000MHz	
Peak gain: Isotropic*	4G/5G Elements	617-960MHz	4dBi
		1710-3800MHz	6dBi
		4900-6000MHz	6dBi
Isolation*	4G/5G Elements	> 10dBm	
Typical Efficiency	4G/5G Elements	617-960MHz	>50%
		1710-3800MHz	>60%
		4900-6000MHz	>35%
Correlation Co-efficient	4G/5G Elements	<0.2	
Pattern		Omni-directional	
Impedance		50Ω	

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

		Specification
<b>GPS/GNSS DATA</b>		
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
<b>MECHANICAL DATA</b>		
Dimensions	Height	80mm (3.1")
	Diameter	180mm (7.1")
Operating Temp		-40° / +80°C (-40° / +176°F)
Colour		Black/White
Ingress Protection		IP69K
<b>MOUNTING DATA</b>		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
<b>CABLE DATA</b>		
Cellular Cables	Type	C32
	Length	5m (16')
	Termination	FAKRA D (Purple)
GPS Cable	Type	CS29
	Length	5m (16')
	Termination	FAKRA C (Blue)



### About Semtech

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