



## Semtech Antenna – 5-in-1 Dual Sharkfin for XR80 and XR90

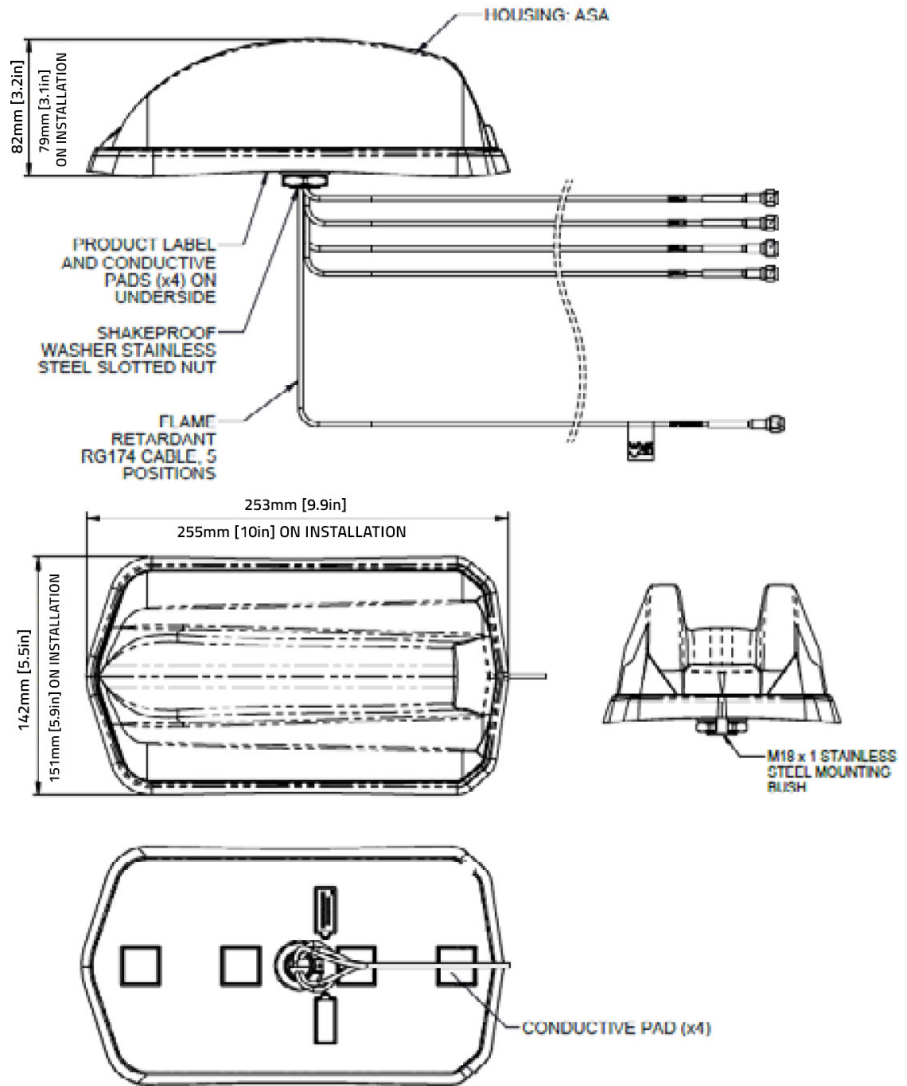
The 5-in-1 Dual Sharkfin is a specialized antenna solution engineered and certified for AirLink® XR80 mobility applications.

The antenna has a sleek sharkfin-style housing featuring a 4x4 MIMO for 4G/5G (617-6000MHz) and GNSS with an integrated gain 26dB LNA for optimized performance.

		Specification	
PART NO.		6001446 (Black)/6001524 (White)	
ELECTRICAL DATA			
Frequency Range	4G/5G Elements	617-960MHz / 1427-6000MHz	
Peak gain: Isotropic*	4G/5G Elements	617-960MHz	4.2dBi
		1427-6000MHz	7.1dBi
Isolation*	4G/5G Elements	617-960MHz	≥7dB
		1427-6000MHz	≥ 16dB
Typical Efficiency	4G/5G Elements	617-960MHz	61%
		1427-6000MHz	71%
Correlation Co-efficient	4G/5G Elements	<0.25	
Pattern		Omni-directional	
Impedance		50Ω	

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

		Specification
<b>GPS/GNSS DATA</b>		
<b>Frequency Range</b>		1562-1612MHz
<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>		17mA
<b>MECHANICAL DATA</b>		
<b>Dimensions</b>	Height	82mm (3.2")
	Length	253mm (9.96")
	Width	142mm (5.56")
<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>EXTENSION CABLE DATA</b>		
<b>Cellular Cables</b>	Type	CS32 (UN ECE R 118 Compliant)
	Length	4m (13.12")
	Termination	FAKRA D (Purple)
<b>GPS Cable</b>	Type	CS29 (UN ECE R 118 Compliant)
	Length	4m (13.12")
	Termination	FAKRA C (Blue)
<b>ACCESSORIES</b>		
<b>In The Box</b>		Dual sharkfin antenna with pigtails, extension cables, foam pad, mounting bolt, centre sealing pad
<b>Optional Accessories (Sold Separately)</b>		<ul style="list-style-type: none"> <li>6001506 Dual Sharkfin Rib Adapter: Roof mounting kit designed for (2021 and newer) Ford Explorer/Interceptor</li> <li>6001505 Magnetic Mounting Adapter: Mount antenna to vehicle roof without the drilling a hole (only for trials and demos)</li> </ul>



**About Semtech**

Semtech Corporation (Nasdaq: SMTC) is a high-performance semiconductor, IoT systems and cloud connectivity service provider dedicated to delivering high-quality technology solutions that enable a smarter, more connected and sustainable planet. Our global teams are committed to empowering solution architects and application developers to develop breakthrough products for the infrastructure, industrial and consumer markets.

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