



Semtech Antenna – 9-in-1 Dual Sharkfin

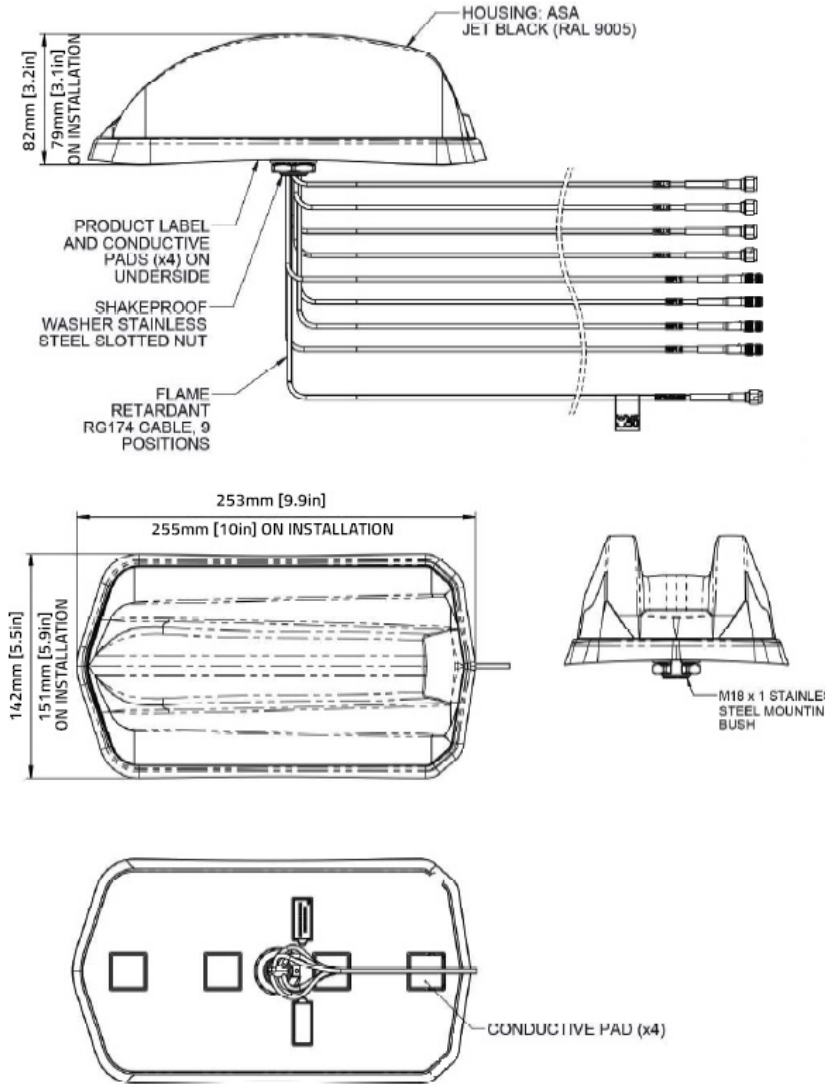
The 9-in-1 Dual Sharkfin is a specialized antenna solution engineered and certified for AirLink XR90 mobility applications.

The antenna has a sleek sharkfin-style housing featuring a 4x4 MIMO for 4G/5G (617-6000MHz), dual-band 2.5/5GHz Wi-Fi, and GNSS with an integrated gain 26dB LNA for optimized performance.

		Specification	
PART NO.		6001442 (Black)/6001501 (White)	
ELECTRICAL DATA			
Frequency Range	4G/5G Elements	617-960MHz / 1427-6000MHz	
	Wi-Fi Elements	2.4/5-6GHz	
Peak gain: Isotropic*	4G/5G Elements	617-960MHz	3.9dBi
		1427-4200MHz	6.4dBi
		4200-6000MHz	6.7dBi
	Wi-Fi Elements	2.4 GHz	4.3dBi
		5GHz	7.2dBi
Isolation*	4G/5G Elements	617-960MHz	≥7dB
		1427-6000MHz	≥ 16dB
	Wi-Fi Elements	2.4/5GHz	≥17dB
Typical Efficiency	4G/5G Elements	617-960MHz	63%
		1427-4200MHz	65%
		4200-6000MHz	55%
	Wi-Fi Elements	2.4GHz	53%
		5.0GHz	49%
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		17mA
MECHANICAL DATA		
Dimensions	Height	82mm (3.2")
	Length	253mm (9.96")
	Width	142mm (5.56")
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	CS32 (UN ECE R 118 Compliant)
	Length	4m (13.12")
	Termination	FAKRA D (Purple)
GPS Cable	Type	CS29 (UN ECE R 118 Compliant)
	Length	4m (13.12")
	Termination	FAKRA C (Blue)
Wi-Fi Cables	Type	CS32 (UN ECE R 118 Compliant)
	Length	4m (13.12")
	Termination	FAKRA I (Beige)
ACCESSORIES		
In The Box		Dual Sharkfin antenna with pigtails, extension cables, foam pad, mounting bolt, centre sealing pad
Optional Accessories (Sold Separately)		<ul style="list-style-type: none"> 6001506 Dual Sharkfin Rib Adapter: Roof mounting kit designed for (2021 and newer) Ford Explorer/Interceptor 6001505 Magnetic Mounting Adapter: Mount antenna to vehicle roof without the drilling a hole (only for trials and demos)



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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