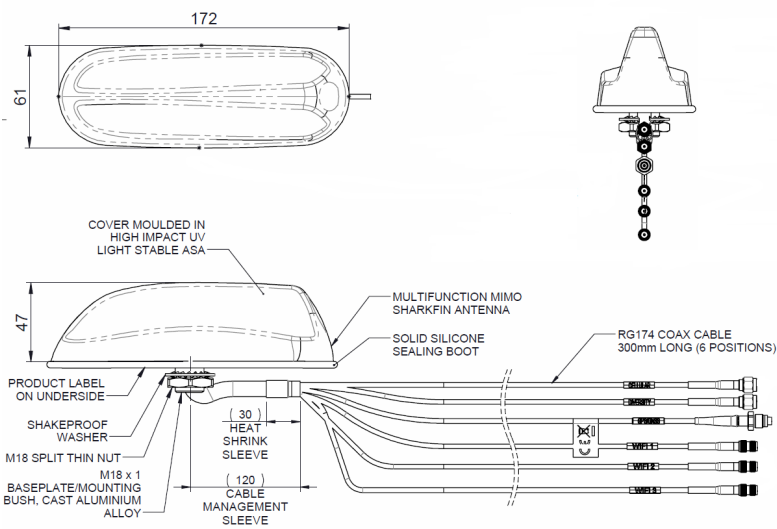# Semtech Antenna – 6-in-1 SharkFin

Tested and certified to operate with AirLink routers and gateways, the 6-in-1 SharkFin has a compact OEM style housing that contains 2x2 MiMo antenna functions for 2G, 3G, and 4G LTE frequencies, an active antenna for GNSS with 26dB gain LNA, and dual band 3x3 MiMo Wi-Fi (2.4/5.0GHz) in a compact package.

		Specification
PART NO.		
		6001197 (Black) / 6001262 (White)
ELECTRICAL DATA		
Frequency Range	3G/4G Elements	698-960, 1710-2170, 2500-3800MHz
	Wi-Fi Elements	2.4 / 4.9-6.0GHz
Peak gain: Isotropic*	3G/4G Elements	2dBi (698-960MHz), 5dBi (1710-3800MHz)
	Wi-Fi Elements	4dBi (2.4GHz), 6dBi (5.8GHz)
Isolation with 4m/13' CS29	Cellular	> 11dB
	Wi-Fi	> 19dB
Typical Efficiency w/o Cable Loss	3G/4G Elements	> 50%
Correlation Co-efficient	3G/4G Elements	< 0.2
Polarisation		Vertical
Pattern		Omni-directional
Impedance		50Ω
Max Input Power		25W

	Specification
GPS/GNSS DATA	
Frequency Range	1562-1612MHz
VSWR	<2:1 ± 4MHz
Gain: LNA	26dB
Polarisation	Right Hand Circular
Operating Voltage	3-5V DC
Approval	E11
Current	<20mA

* Excluding cable loss

MECHANICAL DATA

Dimensions	Height (including whip)	118mm (4.6")
	Height (excluding whip)	50mm (2.2")
	Length	170mm (6.77")
	Width	60mm (2.4")
Operating Temp		-40° / +80°C (-40° / 176°F)
Material		ASA, EPDM, Aluminium Alloy
Color		Black/White
Ingress Protection		IP66
Weight		1282g

MOUNTING DATA

Mounting Type	Bolt Mount
Mounting Hole	19mm (3/4")

CABLE DATA

Cell / LTE Cables	Type	CS29
	Length	4m (13ft)
	Termination	SMA Plug
GPS Cable	Type	CS29
	Length	4m (13ft)
	Termination	SMA Plug
Wi-Fi Cables	Type	CS32
	Length	4m (13ft)
	Termination	RP-SMA Plug

TECHNICAL DRAWING

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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