

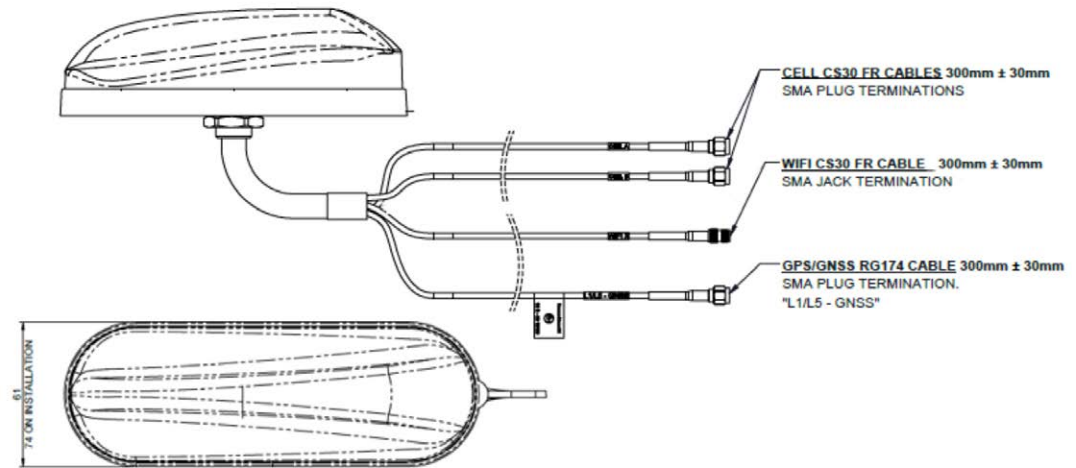


## Semtech Antenna – 4-in-1 SharkFin

The 4-in-1 sharkfin antenna provides a 2x2 MiMo cellular 5G/4G (617-960/1710-4200MHz) with L1/L5 GPS/GNSS and SiSo WiFi 2.4-7.2GHz in a compact sharkfin style antenna housing. The cellular and WiFi elements are omnidirectional allowing easy placement of the antenna on the vehicle and the antenna can be installed on a conductive or non-conductive panel without significant detriment to performance. The sleek sharkfin styling creates a low visual impact on vehicles and the compact footprint allows installation where roof real-estate is limited including between the ribs on a Ford Explorer / Interceptor. The antenna is installed using a single M18 / 3/4" hole maximising vehicle resale value and seals to IP69K when properly installed protecting the antenna and vehicle from water ingress. The antenna is supplied with 4m (13') long low loss flame retardant coaxial extension cables to simplify installation. The cables are compliant with UN ECE R118 making the antenna suitable for installation on buses and coaches.

		Specification	
PART NO.		6001574 (Black)	
ELECTRICAL DATA			
Frequency Range	GPS/GNSS	1x 1559-1612 - 1164-1189 MHz	Patch type element
	5G/4G Elements	2x 617-960/1710-4200 MHz	PiFa antennas
	Wi-Fi Elements	1x 2.4-2.485/5.15-7.125GHz	PiFa antenna
Peak gain: Isotropic	5G/45G Elements	617-960MHz 1710-4200MHz	3dBi 4dBi
	Wi-Fi Elements	2400-2485MHz 5150-7125MHz	3dBi 6dBi
Isolation	5G/4G Elements	>8dB	
Typical Efficiency	5G/4G Elements	40% 49%	617-960MHz 1710-4200MHz
	Wi-Fi Elements	61% 54%	2400-2485MHz 5150-7125MHz
Correlation Co-efficient	4G/5G Elements	<0.2	
Pattern	Omni-directional		
Impedance	50Ω		

		Specification
GPS/GNSS DATA		
Frequency Range		1559-1612 / 1164-1189 MHz
Gain: LNA		30dB / 26dB
Typical Noise Figure		-2.6dB
Operating Voltage		3-5V
Typical Current		36mA
MECHANICAL DATA		
Dimensions	Total Height	50 mm (1.96")
	Length	175 mm (6.89")
	Width	61 mm (2.4")
Operating Temp		-40° / +80°C (-40° / 176°F)
Material		ASA, Silicone Rubber, Aluminium Alloy
Color		Black (6001574)
Ingress Protection		IP69K
MOUNTING INFO		
Mounting Type		Panel Mount
Mounting Hole		19 mm (3/4")
CABLE DATA		
Cell / LTE Cables	Type	CS32
	Length	4 m (13')
	Termination	2x SMA Plug
GPS/GNSS Cable	Type	FR CS29
	Length	4 m (13')
	Termination	1x SMA Plug
Wi-Fi Cable	Type	CS232
	Length	4 m (13')
	Termination	1x Reverse Polarity SMA Plug



## 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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