

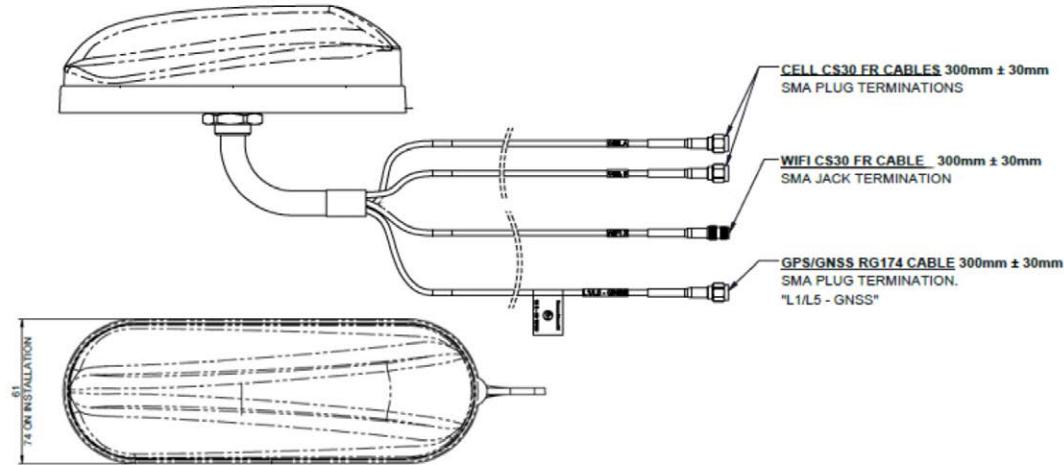


Semtech Antenna – 4-in-1 SharkFin

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 / $\frac{3}{4}$ " 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			
GPS/GNSS	1x 1559-1612 - 1164-1189 MHz	Patch type element	
Frequency Range	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 Length Width	50 mm (1.96") 175 mm (6.89") 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 Length Termination	CS32 4 m (13') 2x SMA Plug
GPS/GNSS Cable	Type Length Termination	FR CS29 4 m (13') 1x SMA Plug
Wi-Fi Cable	Type Length Termination	CS232 4 m (13') 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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