

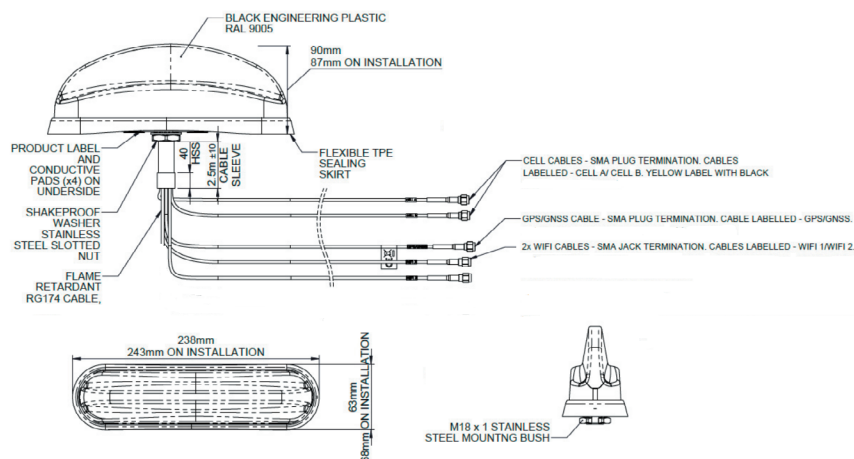
## Semtech Antenna – 5-in-1 Panel

The 5-in-1 Panel has been tested and certified to provide LTE and Wi-Fi antenna functionality for AirLink routers and gateways. The compact, robust low profile housing is ground plane independent, weatherproof and contains two antenna elements with effective isolation and correlation covering all current global cellular bands in frequency ranges 617–960/1427–6000MHz as well as an active GNSS antenna with advanced filtering for LTE Band 13/14 operation and 2 dual-band Wi-Fi elements.

PART NO.		Specification	
		6001455 (2m)	
ELECTRICAL DATA			
Frequency Range	3G/4G Elements	617–960 / 1427–6000MHz	
	GNSS	1562–1612MHz	
	Wi-Fi Elements	2.4 / 4.9–6GHz	
Peak gain: Isotropic*	Cellular	617–960MHz	5dBi
		1427–3800MHz	8dBi
		4900–7200MHz	11dBi
	Wi-Fi	5dBi / 11dBi	2.4GHz / 5GHz
Isolation	Cellular	> 12dB	
	Wi-Fi	> 15dB	
Correlation Coefficient	Cellular	< 0.2	
Pattern		Omni-directional	
Nominal Impedance		50Ω	
Max Input Power		10W	
GNSS DATA			
Frequency Range		1562–1612MHz	
VSWR		<2.1 ± 4MHz	
LNA Gain		26dB	
Polarisation		Right Hand Circular	
Operating Voltage		3–5VDC	
Current		Typical <20mA	

\*Peak gain simulated off a groundplane and does not include cable attenuation

		Specification
MECHANICAL DATA		
Dimensions	Height	90mm (3 1/2")
	Length	238mm (9 3/4")
	Width	63mm (2 1/2")
Operating Temp		-40° / +80° C (-40° / 176° F)
Material		Silicone Rubber, Aluminium Alloy
Color		Black
IP Rating		IP69K
MOUNTING DATA		
Mounting Type		19mm (3/4") bolt mount
CABLE DATA		
Cell / LTE Cable	Cable Type	RG174
	Length	2m (6' 6 3/4")
	Termination	SMA Plug
GPS Cable	Cable Type	RG174
	Length	2m (6' 6 3/4")
	Termination	SMA Plug
Wi-Fi Cable	Cable Type	RG174
	Length	2m (6' 6 3/4")
	Termination	RP-SMA Jack
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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