



## Semtech Antenna – 4-in-1 Panel

The 4-in-1 Panel has been tested and certified to provide MiMo LTE and accurate positioning for AirLink routers.

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 and LTE bands in frequency range 698-960/1710-3800MHz. It also contains an active GNSS antenna for positioning or timing function and a single Wi-Fi element that makes it ideal for IoT applications.

		Specification	
PART NO.		6001285	
ELECTRICAL DATA			
Frequency Range	3G/4G Elements	698-960 / 1710-3800MHz	
	Wi-Fi Elements	2.4/4.9-6GHz	
Peak gain: Isotropic*	3G/4G Elements	698-960MHz	2dBi
		1710-3800MHz	5dBi
	Wi-Fi Elements	2.4GHz	4dBi
		5.0GHz	6dBi
Isolation	3G/4G Elements	>12dB	
	Wi-Fi Elements	>20dB	
Typical Efficiency*	3G/4G Elements	>50%	
Correlation Co-efficient	3G/4G Elements	<0.2	
Pattern	Omni-directional		
Impedance	50Ω		
Max Input Power	25W		

\*Simulated off a groundplane and does not include cable attenuation

GNSS DATA		
Frequency Range		1562-1612MHz
VSWR		<2:1 ± 4MHz
LNA Gain		26dB
Polarisation		Right Hand Circular
Operating Voltage		3-5V DC
Typical Current		<20mA
MECHANICAL DATA		
Dimensions	Height	50mm (2.2")
	Length	150mm (5.90")
	Width	44mm (1.47")
Operating Temp		-40° / +80°C(-40° / 176°F)
Material		ASA
Color		Black
Ingress Protection		IP66
MOUNTING DATA		
Mounting Type		Bolt
Mounting Hole		19 (3/4")
CABLE DATA		
Cell / LTE Cables	Cable Type	RG174
	Length	2m/6.5ft
GPS Cables	Termination	SMA Plug
	Cable Type	RG174
Wi-Fi Cable	Length	2m/6.5ft
	Termination	RP-SMA

### 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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