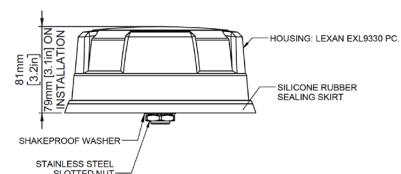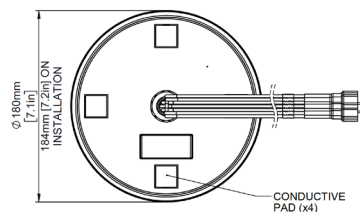## Semtech Antenna – 5-in-1 Dome

The 5-in-1 Dome is a custom single antenna solution for the RV55 Dual Wi-Fi, tested and certified for mobile application.

The antenna has a low-profile design that contains five isolated high performance antenna elements in a single housing for optimal coverage; two ultra-wideband elements spanning 617-6000MHz; a high performance GNSS antenna with an integrated 26dB gain LNA; and two dual band 2.4/5GHz omni-directional Wi-Fi elements.

		Specification
PART NO.		
		6001275
ELECTRICAL DATA		
Frequency Range	3G/4G Elements	617-960MHz / 1710-6000
	Wi-Fi Elements	2.4/4.9-6GHz
Peak gain: Isotropic*	3G/4G Elements	617-960MHz 4dBi 1710-3800MHz 8dBi 4900-6000MHz 9dBi
	Wi-Fi Elements	2.4 GHz 9dBi 4.9-6.0GHz 9dBi
Isolation*	3G/4G Elements	> 15dB
	Wi-Fi Elements	> 18dB
Typical Efficiency	3G/4G Elements	> 50%
	Wi-Fi Elements	> 70%
Correlation Co-efficient	3G/4G Elements	<0.2
Pattern		Omni-directional
Impedance		50Ω

*Simulated off a groundplane and does not include cable attenuation

		Specification
GPS/GNSS DATA		
Frequency Range		1562-1612MHz
VSWR		<2.1 ± 4MHz
Gain: LNA		26dB
Typical Noise Figure		-2.7dB
Operating Voltage		3-5V DC
Typical Current		15mA
MECHANICAL DATA		
Dimensions	Height	80mm (3.1")
	Diameter	180mm (7.1")
Operating Temp		-40°/ +80°C (-40° / +176°F)
Colour		Black
Ingress Protection		IP69K
MOUNTING DATA		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
CABLE DATA		
Cell / LTE Cables	Type	C32
	Length	5m (16')
	Termination	SMA (m)
GPS Cable	Type	CS29
	Length	5m (16')
	Termination	SMA (m)
Wi-Fi Cables	Type	C32
	Length	5m (16')
	Termination	RP-SMA Plug

Ø 180mm [7.1in]
184mm [7.2in] ON INSTALLATION
CONDUCTIVE PAD (x4)

81mm [3.2in]
79mm [3.1in] ON INSTALLATION
HOUSING: LEXAN EXL9330 PC.
SILICONE RUBBER SEALING SKIRT
SHAKEPROOF WASHER
STAINLESS STEEL SLOTTED NUT

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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