AirLink Antenna Datasheet







Sierra Wireless AirLink® Antenna: 6-in-1 SharkFin

AirLink® Antenna: 6-in-1 SharkFin

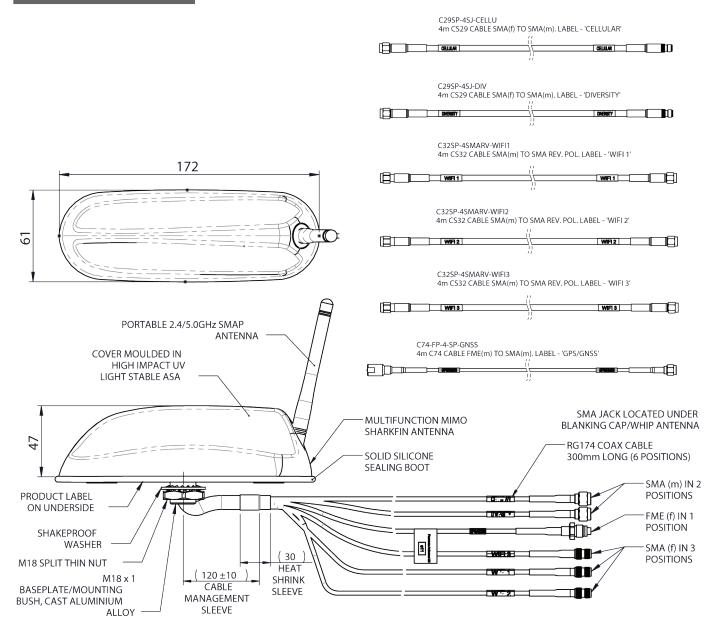
Tested and certified to operate with AirLink routers and gateways, the 6-in-1 SharkFin has a compact OEM style housing that contains 2x2 MiMo antenna function for 2G, 3G, and 4G LTE frequencies, and an active antenna for GNSS with 26dB gain LNA. Mounted via the integral SMA (f) mount, the portable antenna spans 2.4/5.0GHz and, the SharkFin offers dual band 3x3 MiMo Wi-Fi (2.4/5.0GHz) in a compact package.

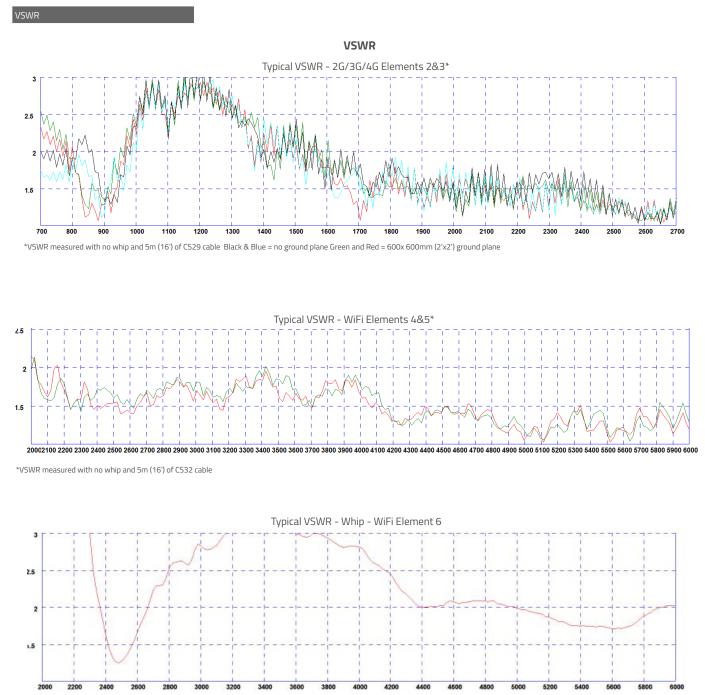
		Specification
PART NO.		
		6001117
ELECTRICAL DATA		
Frequency Range	Elements 2 & 3	698-960, 1710-2170, 2500-3800MHz
	Elements 4 & 5	2.4 / 4.9-6.0GHz
	Element 6 (Whip)	2.4 / 4.9-6.0GHz
Operational Bands	Elements 2 & 3	2G/3G/4G LTE
	Elements 4, 5 & 6	2.4/5GHz Wi-Fi
Peak gain: Isotropic*	Elements 2 & 3	2dBi (698-960MHz), 5dBi (1710-3800MHz)
	Elements 4, 5 &6	4dBi (2.4GHz), 6dBi (5.8GHz)
Isolation with 4m/13' CS29	Cellular	> 11dB
	Wi-Fi	> 19dB
Typical Efficiency w/o Cable Loss	Elements 2 & 3	> 50%
Correlation Co-efficient	Elements 2 & 3	< 0.2
Polarisation		Vertical
Pattern		Omni-directional
Impedance		50Ω
Max Input Power		25W

* Excluding cable loss

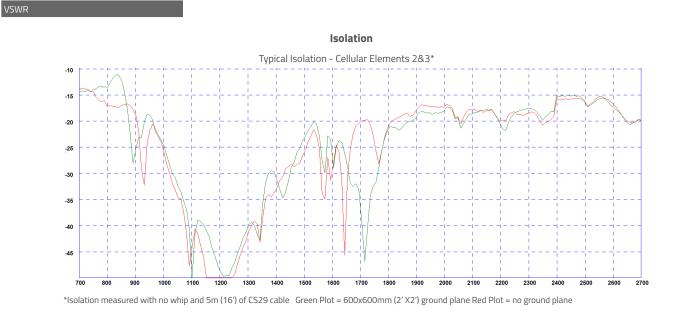
		Specification
GPS/GNSS DATA	Flomont 1	1562-1612MHz
Frequency Range	Element 1	
VSWR		<2:1 ± 4MHz
Gain: LNA		26dB
Polarisation		Right Hand Circular
Operating Voltage		3-5V DC
Approval		E11
Current		<20mA
MECHANICAL DATA		
Dimensions	Height (including whip)	118mm (4.6")
	Height (excluding whip)	50mm (2.2")
	Length	170mm (6.77")
	Width	60mm (2.4")
Operating Temp		-40° / +80°C (-40° / 176°F)
Material		ASA, EPDM, Aluminium Alloy
Colour		Black
Ingress Protection		IP66
Weight		1282g
MOUNTING DATA		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
CABLE DATA	Туре	C529
Cell / LTE Cables	Length	4m (13ft)
	Termination	SMA Plug
GPS Cable	Туре	C529
	Length	4m (13ft)
	Termination	SMA Plug
Wi-Fi Cables	Туре	CS32
	Length	4m (13ft)
	Termination	RP-SMA Plug

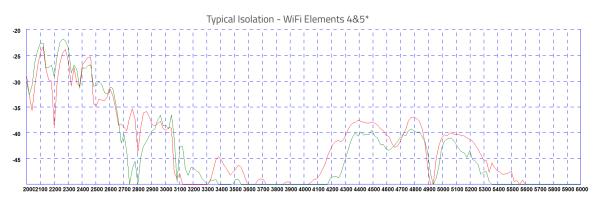
TECHNICAL DRAWING





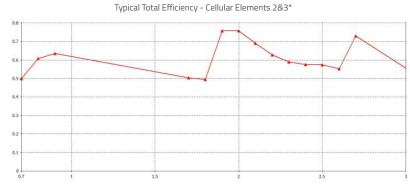
* VSWR measured in free space



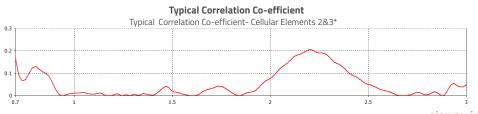




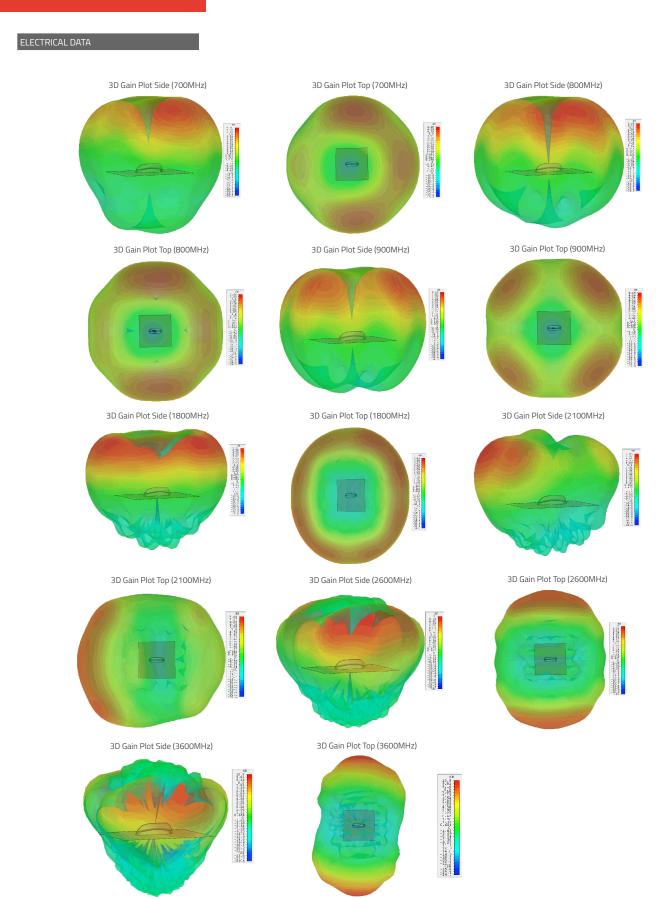
Typical Total Efficiency



* Efficient simulated in free space with no whip and no ground plane and no cable.

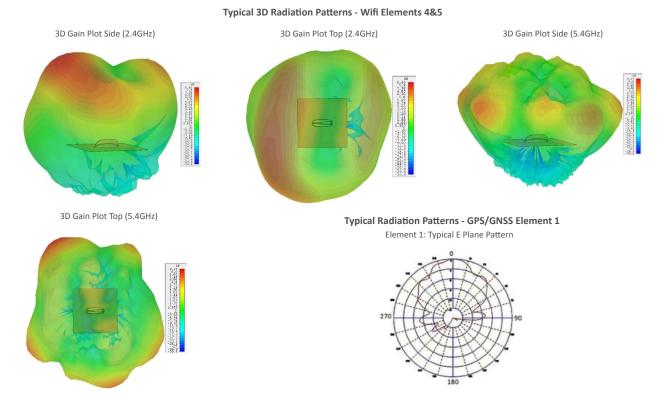


sierrawireless.com/airlink

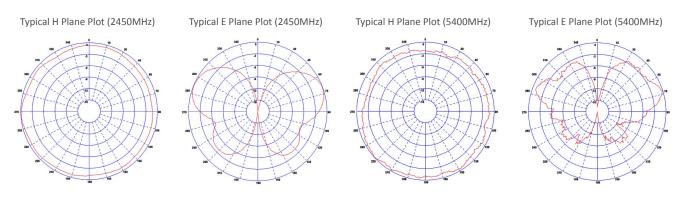


*3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with both elements fed together.

ELECTRICAL DATA



*3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with both elements fed together.



Typical Radiation Patterns - Whip

About Sierra Wireless

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organizations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G, and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster.

For more information, visit www.sierrawireless.com.

Sierra Wireless, the Sierra Wireless logo, AirLink, and the red wave design are trademarks of Sierra Wireless. Other registered trademarks that appear on this brochure are the property of the respective owners. © 2017 Sierra Wireless, Inc. 2017.10.16

