



- OEM style sharkfin with 2x2 MiMo for 4G/5G
- GPS/GNSS and optional up to 4x MiMo WiFi
- Support for external whip

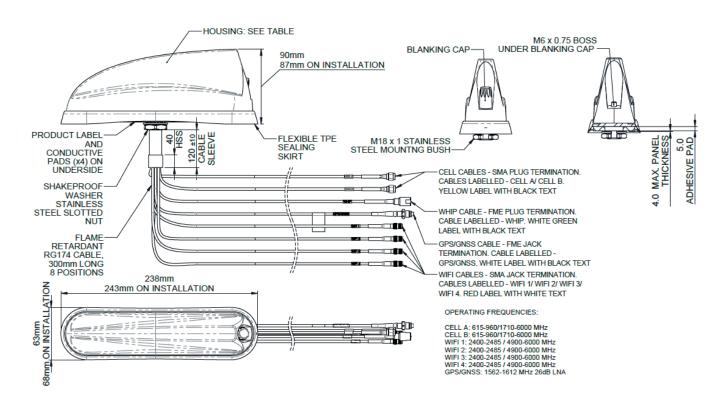
The GPSD 'Sharkee' range has become a byword for industry leading technology in a discrete OEM style shark fin housing. The GPSD-6-60 brings 5G capability to the GPSD family.

The antenna should be installed on a metal panel when a comms whip is used, but if whip is not required, then it may be fitted on a non-metallic panel and still offer similar performance.

The shark fin housing contains a 2x2 MiMo antenna function for 4G/5G (617-960/1710-6000MHz) and option of 2x2, 3x3 or 4x4 MiMo dual band WiFi, which supports WiFi 6. An active antenna for GPS/GLONASS/Galileo/ BeiDou is included, with 26dB gain LNA and advanced filtering for LTE Band 13/14 operation. In addition, there is an integral stud mount for an external antenna whip that can support a range of VHF, UHF or 700/800MHz antennas. A blanking cap is supplied for when this is not required.

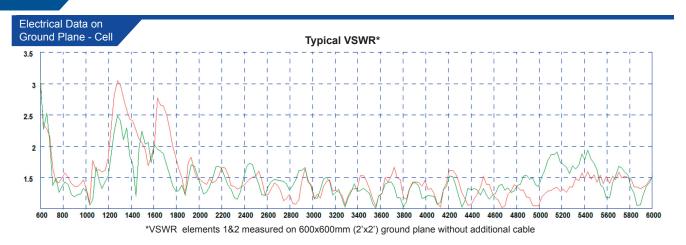
The GPSD shark fin design provides multiple antenna functions while remaining discreet and is suitable for public safety (overt/covert), industrial and transport applications where a cost effective, efficient and robust antenna is essential. Requiring only a single hole mounting, the GPSD reduces vehicle damage, installation time & cost and visual impact whilst protecting a vehicle's resale value.

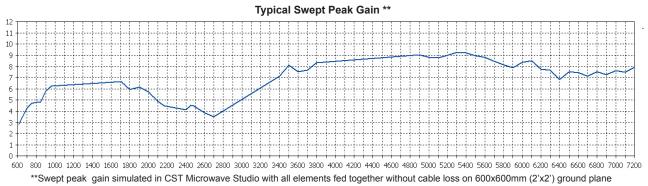
Technical Drawing GPSD-6-60-QW Shown

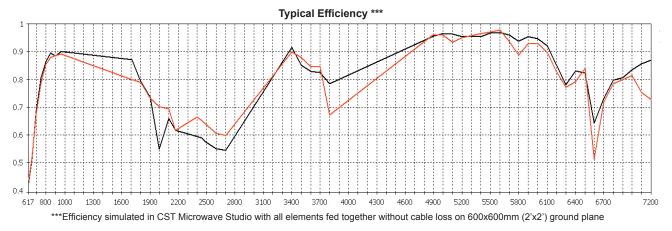


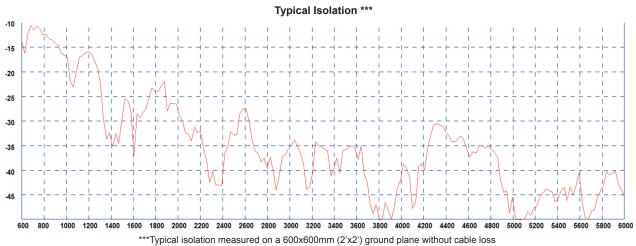
РΙ	rod	luct	D	ata

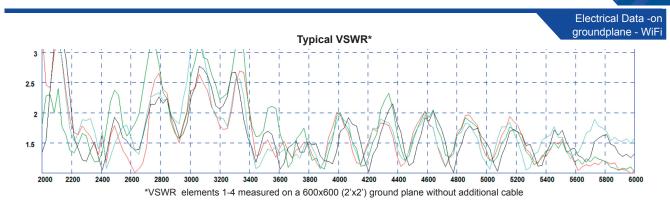
Part No.						
		GPSD-6-60-QW	GPSD-6-60-TW	GPSD-6-60-DW	GPSD-6-60	
Electrical Data	51			202-058		
	Element 1	1562-1612				
Frequency Range (MHz)	Elements 2 & 3	2x 617-960, 1710-6000				
	Elements 4, 5 6 & 7	4 x 2.4/5.0/7.1GHz	3 x 2.4/5.0/7.1GHz	2 x 2.4/5.0/7.1GHz	-	
	Whip	Dependent on selected whip				
	5dBi (617-960MHz)					
Deal, sain, lastroniat	Elements 2 & 3	8dBi (1710-3800MHz)				
Peak gain: Isotropic*		E-ID: (0000 0405MIL)	9dBi (4900-6			
	Elements 4, 5, 6 & 7	5dBi (2396-2485MHz)	5dBi (2396-2485MHz)	5dBi (2396-2485MHz)	-	
	ACIEC	11dBi (4900-7200MHz) 11dBi (4900-7200MHz) - 12dB - 12dB				
Isolation**	4G/5G	> 4EdD				
Typical Efficiency* W/o Cable	WiFi	> 15dB	> 15dB	> 15dB	-	
Loss	Elements 2 & 3	> 40% (617-698Mz) >60% (698-960/1710-6000MHz)				
Correlation Co-efficient	Elements 2 & 3	<0.2				
Polarisation		Vertical				
Pattern	Omni-directional					
Impedance		50Ω				
Max Input Power (W) Internal elements 10W / main whip 60W						
GPS/GNSS Data						
Frequency Range (MHz)		1562-1612				
VSWR		<2:1 ± 4MHz				
Gain: LNA	A 26dB					
Polarisation	Right Hand Circular					
Out of Band Rejection	>40dB (+/- 100MHz f)   Notch Filter @787MHz - 23dB					
Operating Voltage		3-5V DC (fed via coax)				
Current		Typical <20mA				
Mechanical Data						
	Total Height (excl whip)	90 (3.54")				
Dimensions (mm) - Installed	Length	243 (9.56")				
O	Width	63 (2.48")				
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)				
Material	ASA,Silicone Rubber, Aluminium Alloy					
Colour		Black				
Ingress Protection			IP69	r.		
Mounting Info			Donal	/ount		
Fixing		Panel Mount 19 (3/4")				
Hole Size (mm)  Cable Data			19 (5)	¬ ,		
Cable Data  Cable Type - All Feeds			FR RG174 (LIN FOF	R 118 Compliant)		
7111 0000	Diameter	FR RG174 (UN ECE R 118 Compliant) 2.8 (0.11")				
Dimensions (mm)	Length	300 mm (12")				
	Whip	300 mm (12 ) FME (m)				
	GPS/GNSS	FME (III)				
Termination	4G/5G	2 x SMA plug				
	WiFi	4x SMA (f)	3x SMA (f)	2x SMA (f)	_	
		(1)	o. o.m (1)			

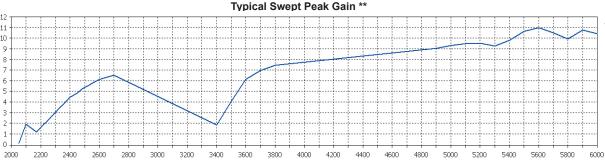




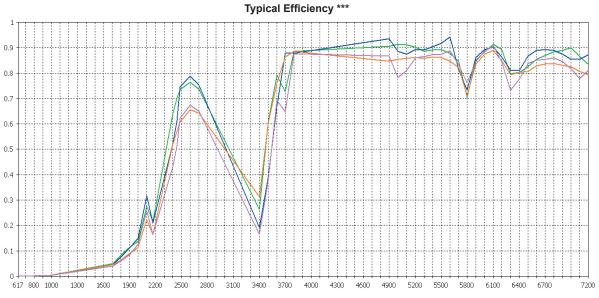




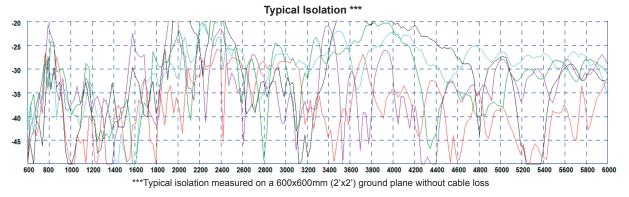


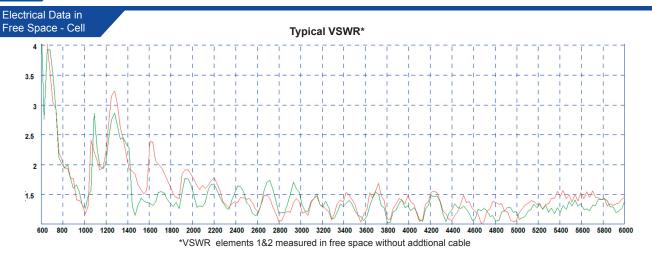


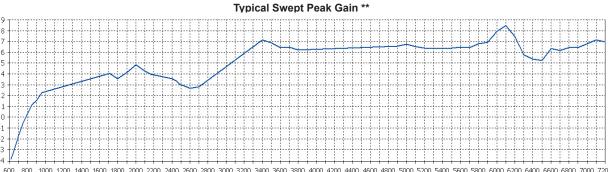
\*\*Swept peak gain simulated in CST Microwave Studio with all elements fed together without cable loss on 600x600mm (2'x2') ground plane



\*\*\*Efficiency simulated in CST Microwave Studio with all elements fed together without cable loss on 600x600mm (2'x2') ground plane





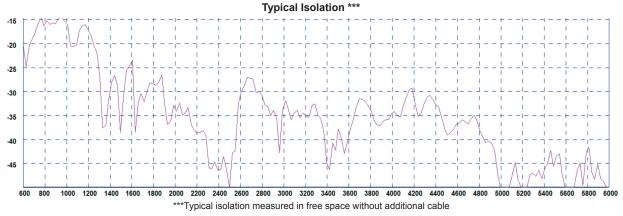


9 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200 5400 5600 5800 6000 6200 6400 6600 6800 7000 7200

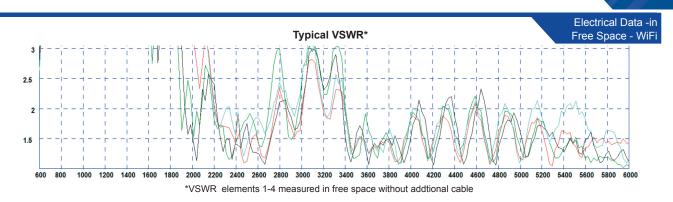
\*\*Swept peak gain simulated in CST Microwave Studio with all elements fed together without cable loss in free space

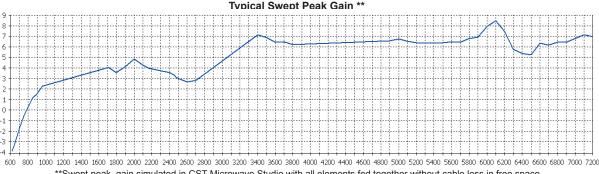


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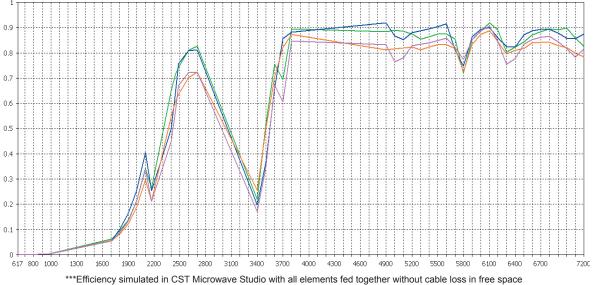


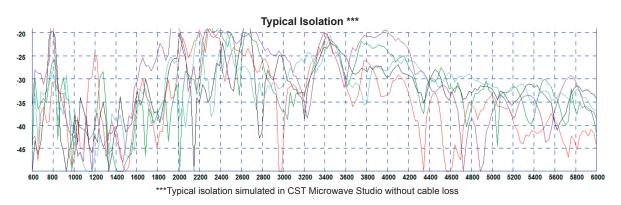


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Typical Efficiency \*\*\*

1

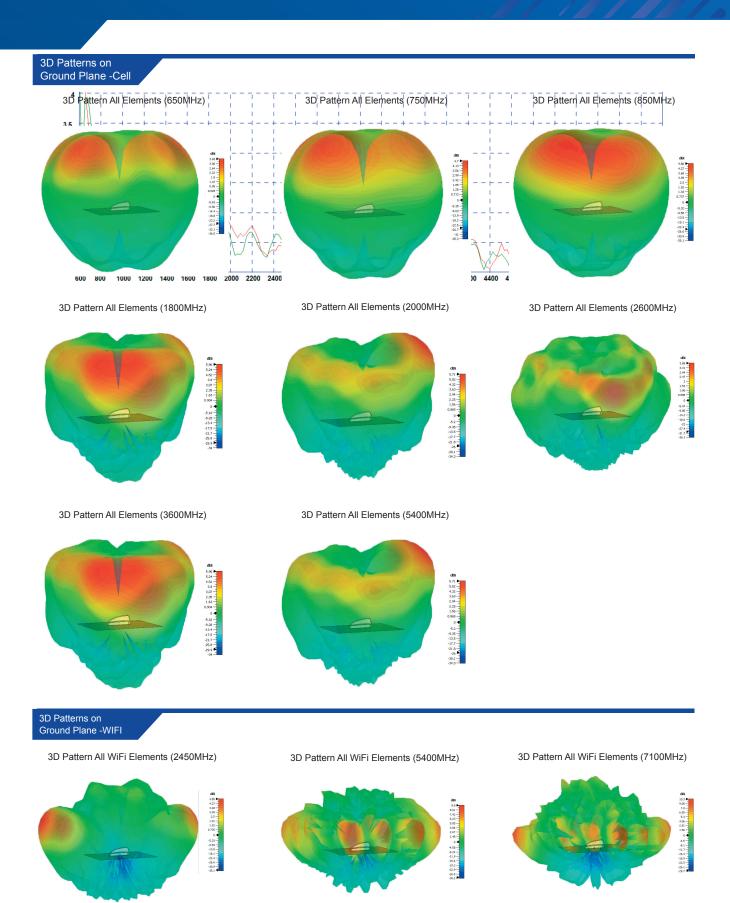




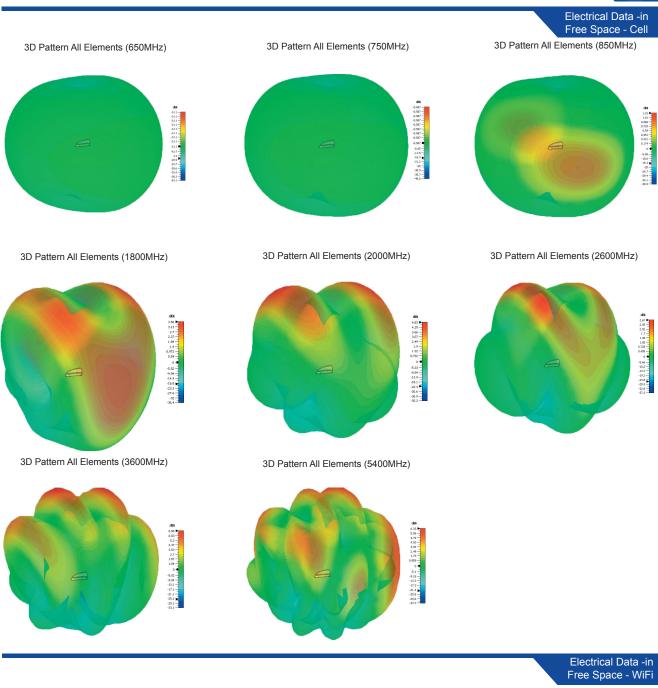
## 4G/5G Sharkfin MiMo Antenna

GPSD-6-60[-VAR]

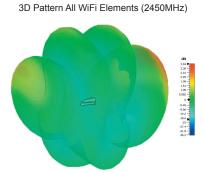


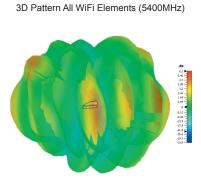


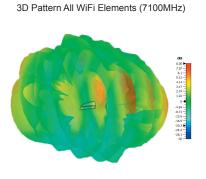
3D patterns all simulated in CST Microwave Studio with all elements of same type fed together excluding cable loss











3D patterns all simulated in CST Microwave Studio with all elements of same type fed together excluding cable loss