











## **Product Data Sheet**

# WS-MGLP-7-58

Low Profile MiMo LTE Antenna with MiMo WiFi and GPS



## LTE MIMO Antenna

### Low Profile MIMO Antenna with GPS

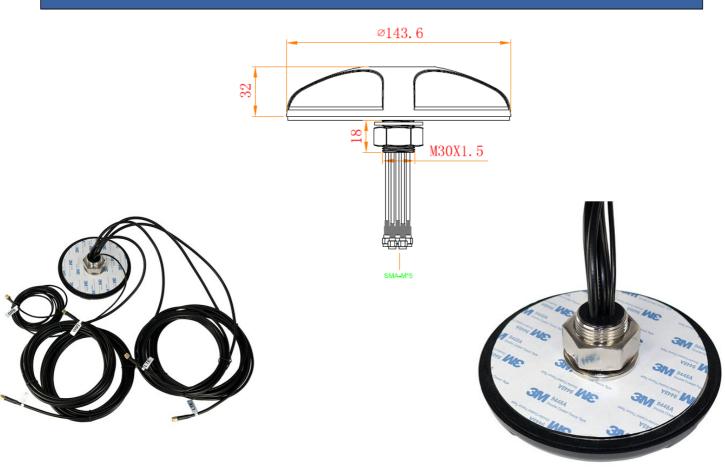


Rugged low profile design
2 x Wideband LTE/cellular elements
2 x 2.4 & 4.9-6GHz WiFi/WiMAX Elements
Integrated GPS antenna

This low profile MIMO antenna has been designed to support the new generation of LTE routers.

The antenna enclosure contains five isolated high performance antenna elements; two ultra-wideband elements covering 698-2700MHz supporting MiMo/diversity at cellular/LTE frequencies and two dual band elements covering 2.3-2.7 & 4.9-6GHz supporting MIMO/diversity operation for WiFi . It also contains a high performance GPS antenna with an integrated 26dB gain LNA and high quality filtering to combat noise.

The antenna does not require a metallic ground plane, and maintains a high level of performance even when mounted on a non-metallic surface.



# LTE MIMO Antenna

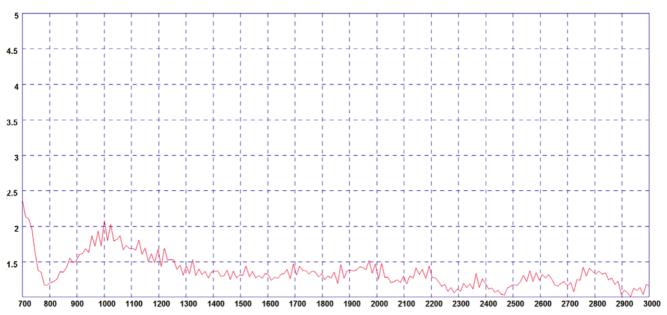
## Low Profile MIMO Antenna with GPS

Part No.			
Floativical Date			WS-MGLP-7-58
Electrical Data		Florents 1.9.2	500,050,/4700,0700
Frequency Range (MHz)		Elements 1 & 2	698-960 / 1700-2700
		Elements 3 & 4	2.3-2.7 / 4.9-6GHz
Operational Bands		Elements 1 & 2	LTE / Cellular
		Elements 3 & 4	WIFI / WIMAX
Peak Gain: Isotropic		Elements 1 & 2 -698-960	3dBi
		Elements 1 & 2 -1700-2700	3dBi
		Elements 3 & 4	3dBi
VSWR		Elements 1 & 2	<1.5:1
		Elements 3 & 4	< 1.5:1
Isolation (in free space)		Elements 1 & 2	> 15dB
		Elements 3 & 4	> 20dB
Polarisation			Vertical
Impedance			50Ω
Max Input Power (W) 50			50
GPS Data			
Frequency Range (M	Hz)		1575 - 1612
VSWR			<2.0:1 ± 4MHz
Gain: LNA			26dB
Polarisation			Right Hand Circular
Operating Voltage			3 - 7V DC (fed via coax)
Current			Typical 14mA
Mechanical Data			
Dimensions	Height		32mm
	Diameter		144mm
Operating Temp			-22°/ 176°F (-30° / +80°C )
Material			A.S.A
Colour			Black
Mounting Data			
Mounting type			Panel mount
IP rating			IP67
Cable Data			
GPS Cable	Туре		RG174
	Diameter		2.8mm
	Length		3.0 mtr
	Termination		SMA (male)
Cell / LTE Cables x2	Туре		CFD195 (double shielded RG58)
	Diameter		5mm
	Length		3.0 mtr
	Termination		SMA (male)
WIFI / WiMAX Cables x2	Туре		CFD195 (double shielded RG58)
	Diameter		5mm
			3.0 mtr
	Length		
	Termination		SMA RP (m)

# LTE MIMO Antenna

### Low Profile MIMO Antenna with GPS

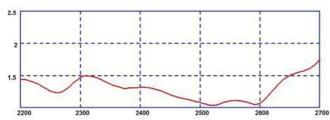
### Typical VSWR cellular / LTE elements\*

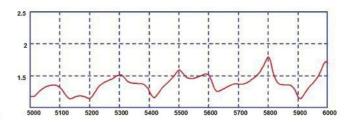


<sup>\*</sup> VSWR measured in free space with 3m of CFD195 cable.

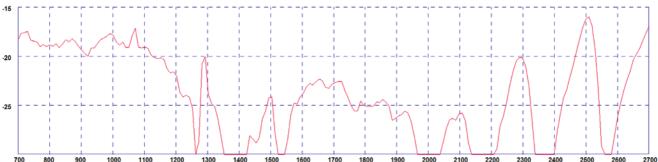
Typical VSWR WIFI elements 2.4GHz\*







#### Typical Isolation cellular / LTE elements\*



<sup>\*</sup> Isolation measured in free space with 300mm of cable.

<sup>\*</sup> VSWR measured with 3m of cable.