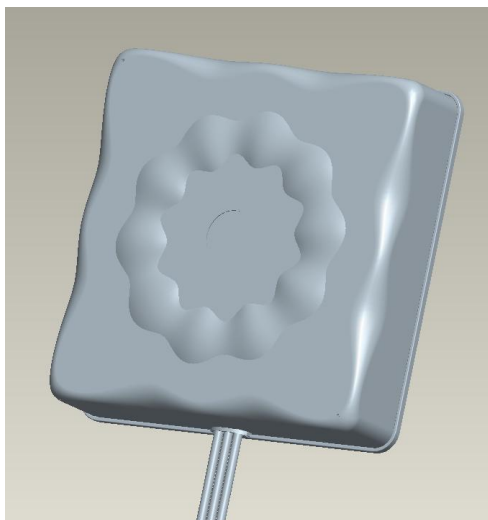
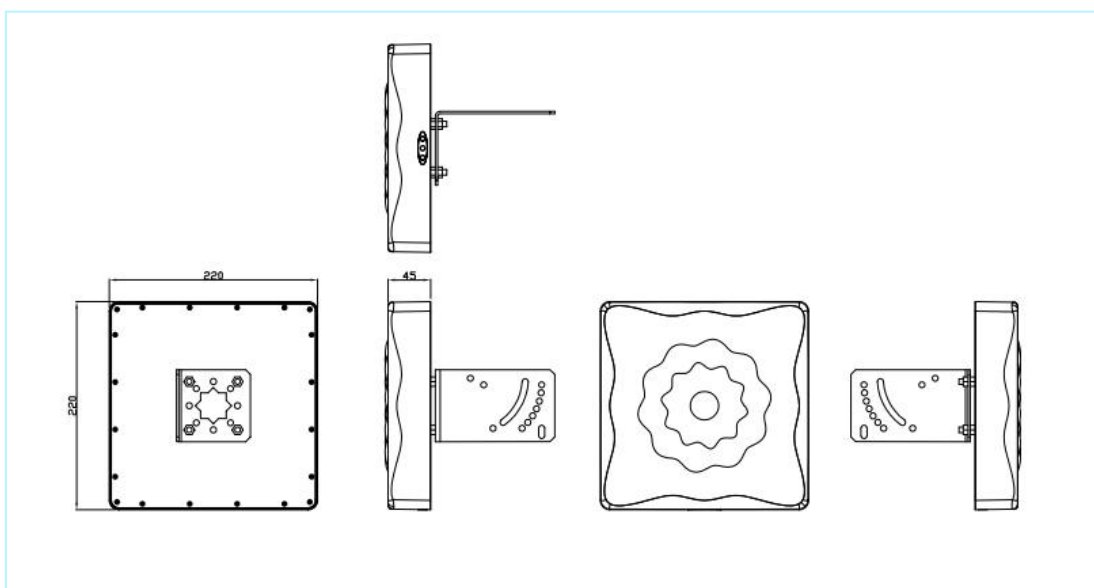


Maswell 5G/4G/LTE+GPS Panel Combo Antenna

AN_Master_001-3



Mechanical dimension



Maswell 5G/4G/LTE+GPS Panel Combo Antenna

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Specifications

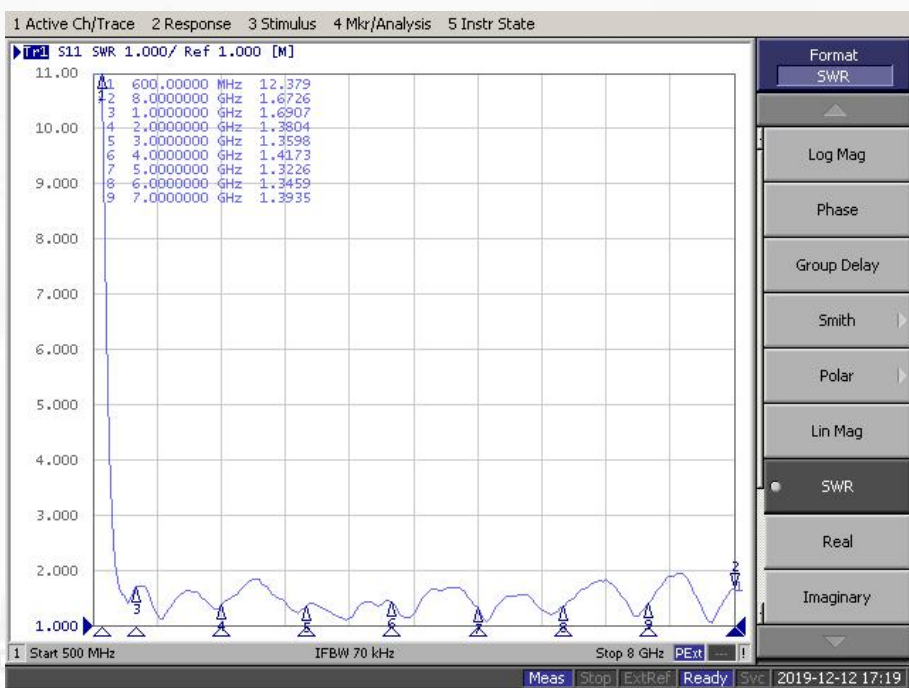
Item	Specifications	
5G Antenna	Frequency Range	600-6000MHz
	Polarization	Linear
	Gain	6.0dBi
	V.S.W.R	<2.0
	Impedance	50Ω
	Isolation	15dB
GPS Antenna	Center Frequency	1575.42±3MHz
	Polarization	RHCP
	Gain	6.0dBi
	V.S.W.R	<2.0
	Impedance	50Ω
	Isolation	15dB
Mechanical	Dimension	22cm*22cm*4.5cm
	Cable	Customizable
	Connector	SMA or others
	Mounting Method	Magnet/Adhesive/Screw
Environmental	Operating Temperature	-40°C~+85°C
	Vibration	10 to 55Hz with 1.5mm amplitude 2hours
	Environmentally Friendly	ROHS Compliant

- ◆ Support all 5g, 4G, 3G, GSM and dual band WiFi bands in the world!
- ◆ Single antenna meets all wireless protocol needs, no need to buy other antenna!
- ◆ Up to 6dbi gain for various signal transmitting and receiving scenarios!

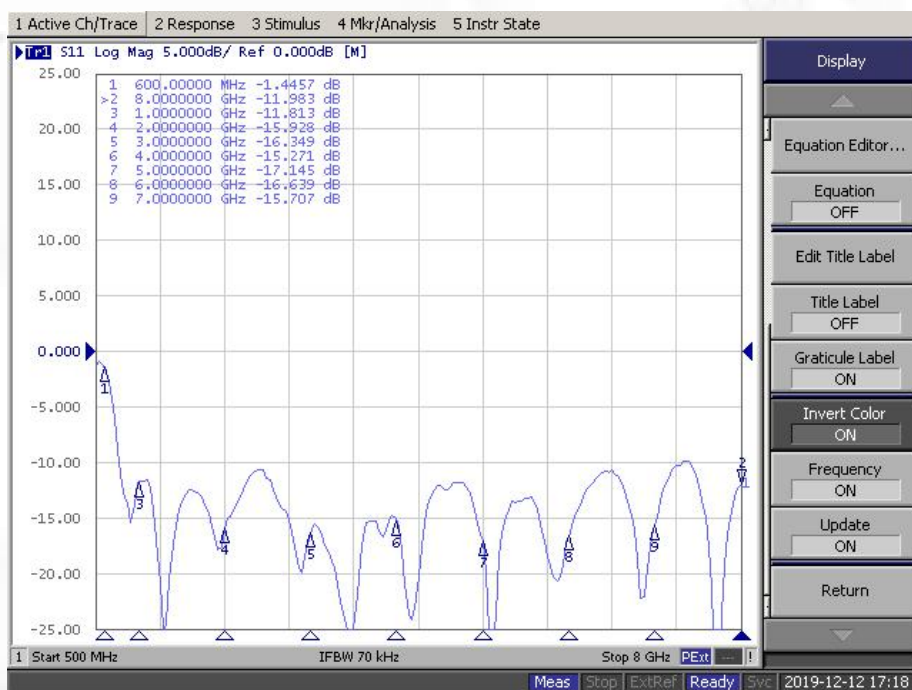
Maswell 5G/4G/LTE+GPS Panel Combo Antenna

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Experimental results:



Measured VSWR

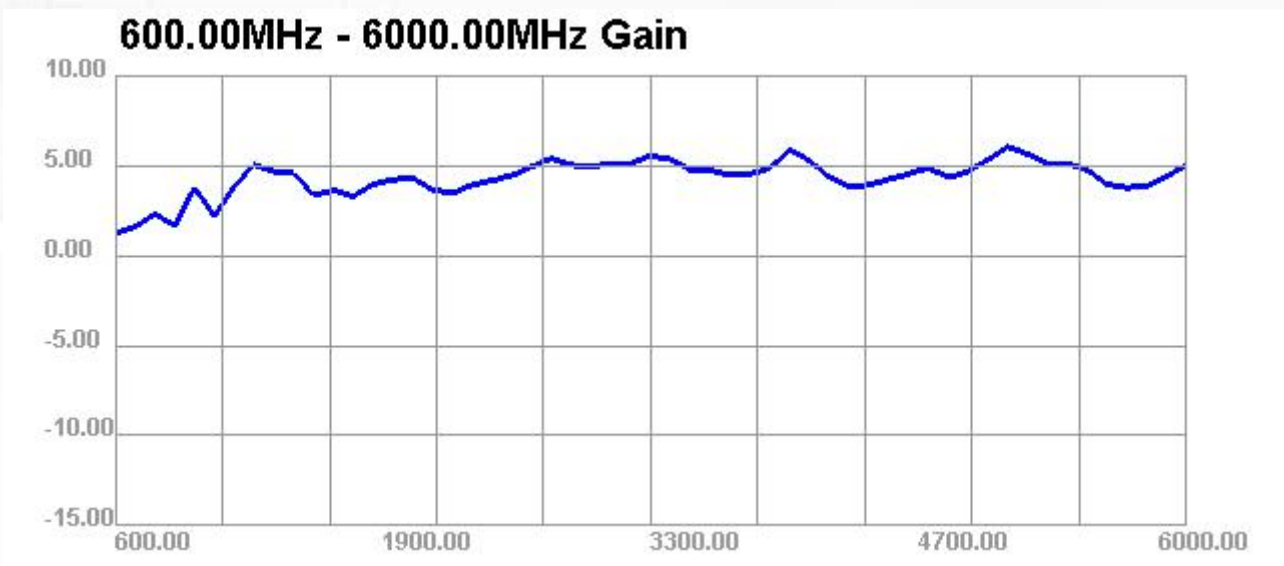


Measured S11

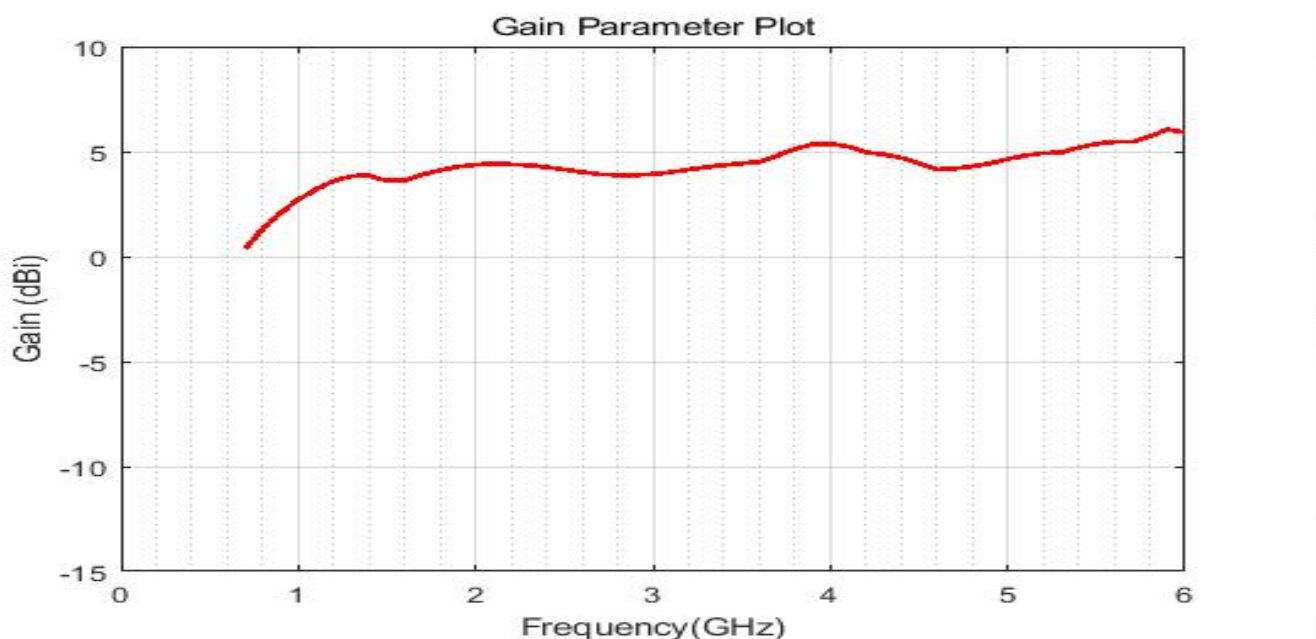
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Experimental results: Gain performance



Measurement gain curve

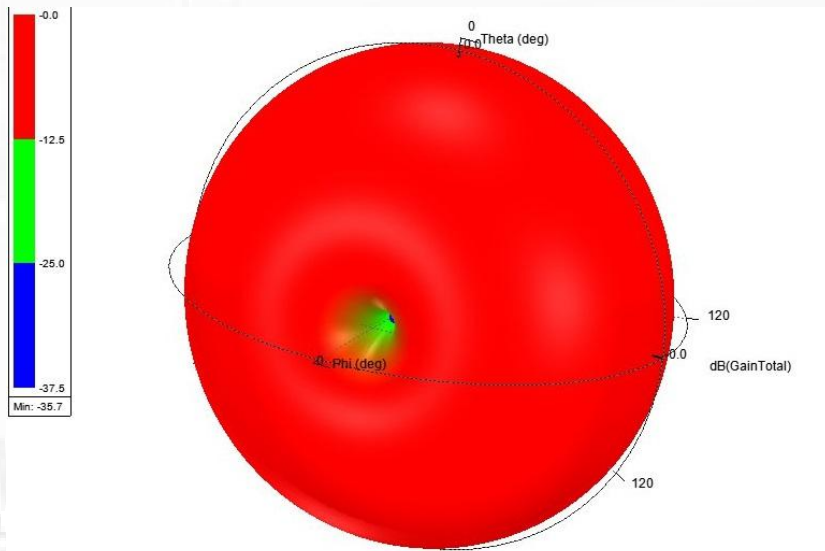


Simulation gain curve

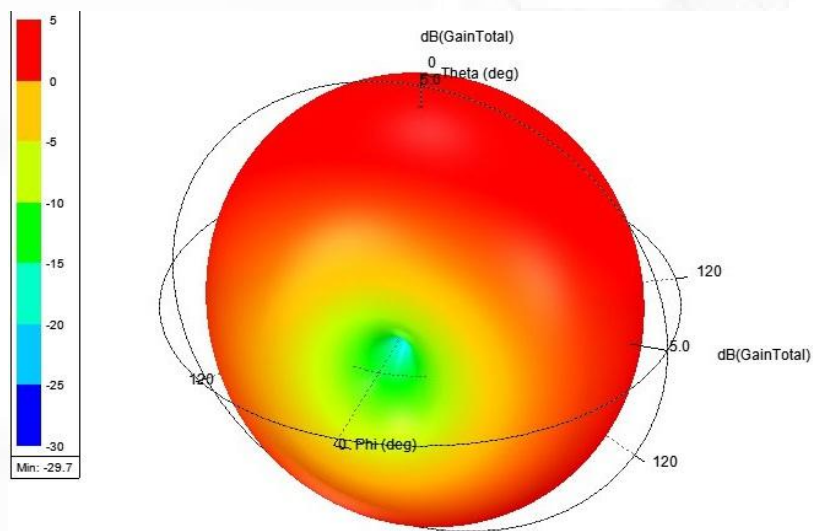
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Radiation pattern: low frequency



600 MHz

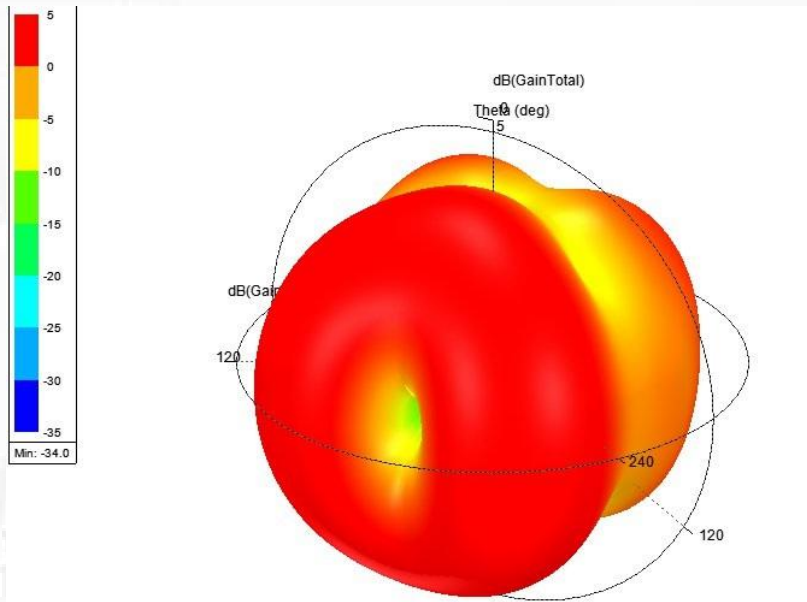


900 MHz

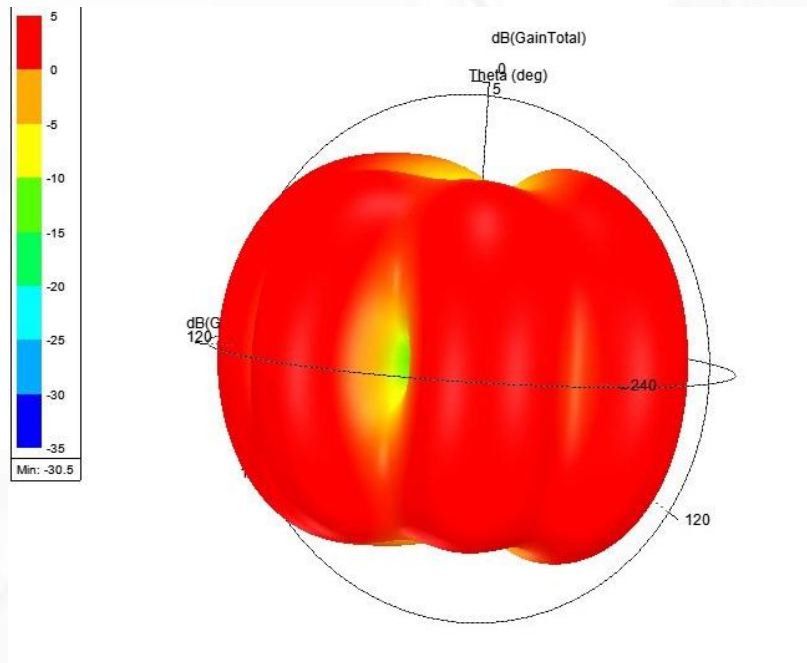
Maswell 5G/4G/LTE+GPS Panel Combo Antenna

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Radiation pattern: intermediate frequency



1.8 GHz

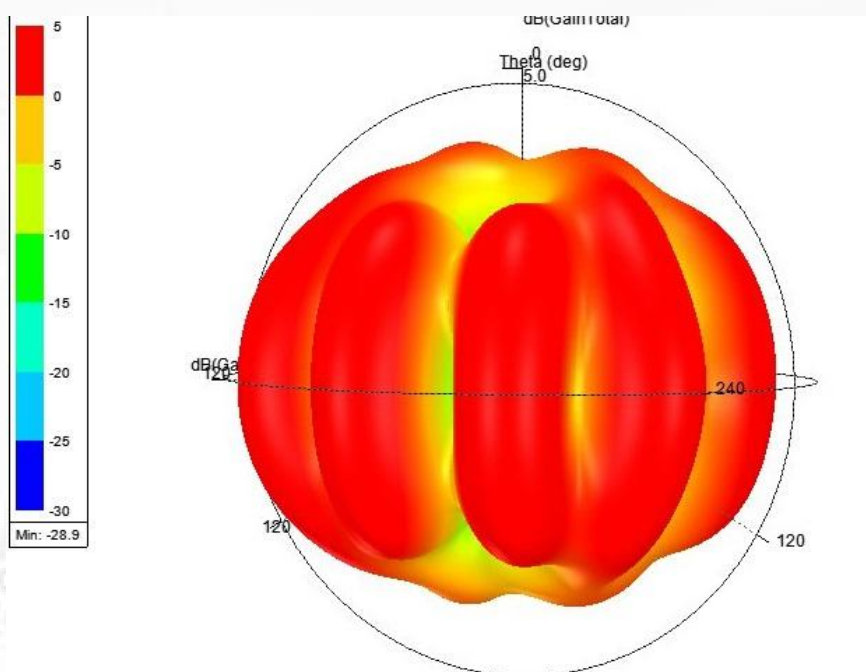


2.6 GHz

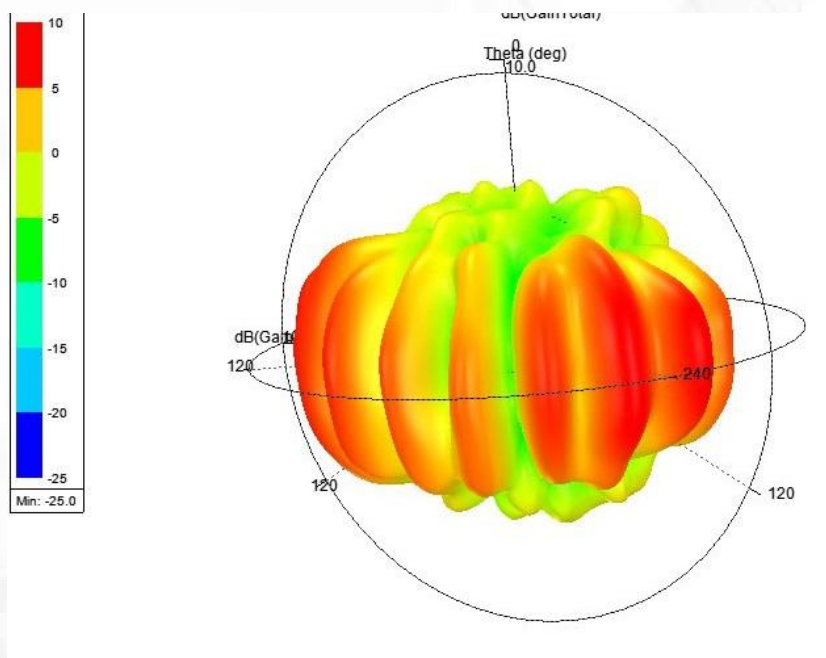
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Radiation pattern: high frequency



3.5 GHz



5.8 GHz