

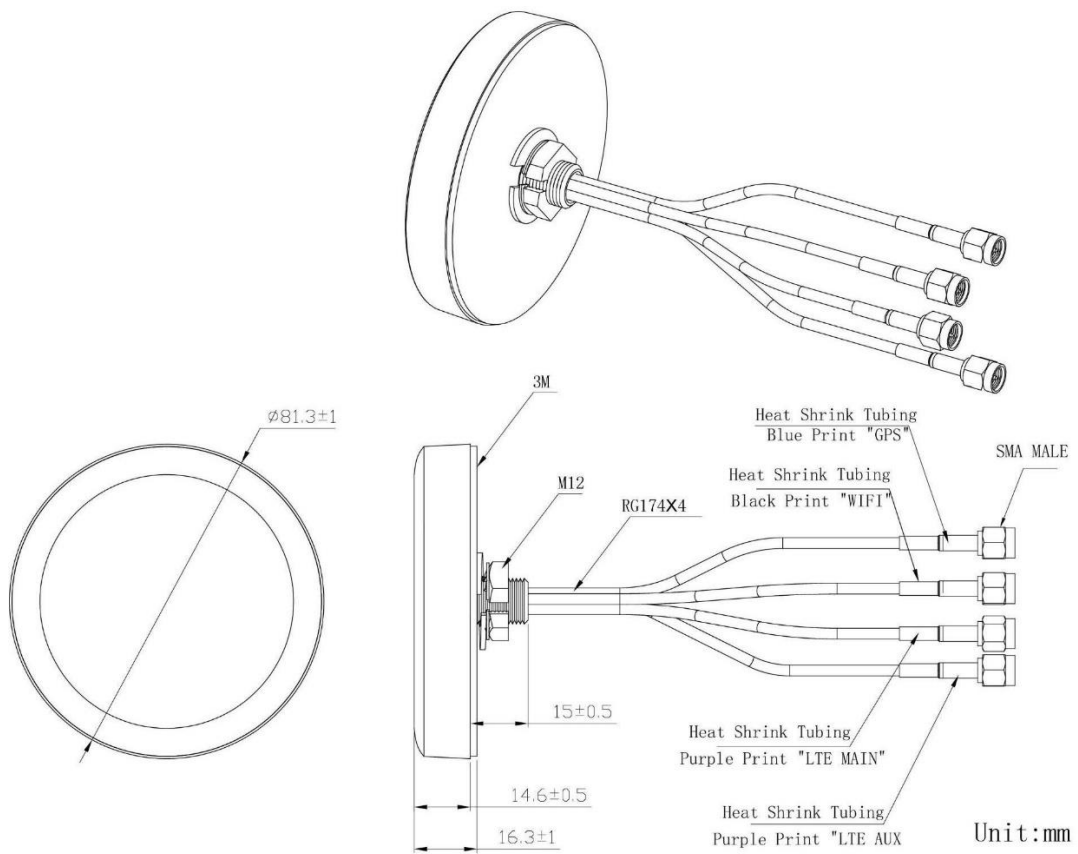
Combo Antenna 4-in-1 LTE MIMO + Dual-Band WiFi 2.4/5.8GHz + GPS

Part number: AL2W1G1

- Waterproof / weatherproof antenna with through-hole mount and adhesive mount
- Four internal antennas with four cables made with LMR-100-equivalent, double-shielded coaxial cables to SMA and RP-SMA connectors.
- Cables and connectors are customizable for orders of qty 20 or more.



Item			Specifications
GPS Antenna	Dielectric Antenna	Center Frequency	1575.42±3MHz
		Band Width	CF±5MHz
		Polarization	RHCP
		Gain	2dBic（Zenith）
		V.S.W.R	<1.5
		Impedance	50Ω
		Axial Ratio	3dB（max）
	LNA	Gain	28±2dB
		Noise Figure	<1.5dB
		V.S.W.R	<2.0
		Supply Voltage	2.2~5V DC
		Current Consumption	<15mA
LTE Antenna MAIN		Frequency Range	698~960MHz/1710~2690MHz
		V.S.W.R	<3.0
		Polarization	Linear
		Gain	2.5dBi
		Impedance	50Ω
LTE Antenna AUX		Frequency Range	698~960MHz/1710~2690MHz
		V.S.W.R	<3.0
		Polarization	Linear
		Gain	2.0dBi
		Impedance	50Ω
WIFI Dual-Band Antenna		Frequency Range	2400~2483.5MHz/4900~5825MHz
		Polarization	Linear
		Gain	3dBi
		V.S.W.R	<2.0
		Impedance	50Ω
Mechanical		Cable	100-Series: Length is customizable
		Connectors	SMA: • LTE MAIN • LTE AUX • GPS RP-SMA: • WIFI

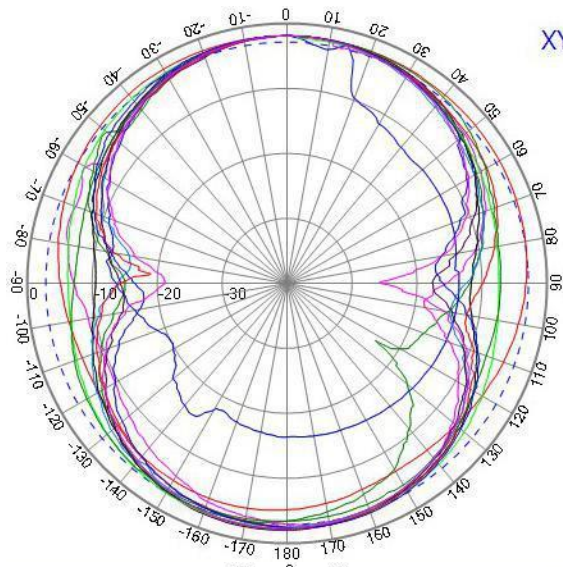


MAXIMUM GAIN OF THE WI-FI AND LTE ANTENNAS

	main	
frequency (MHz)	gain (dBi)	efficiency (%)
698	0.63	30.30
824	2.47	40.56
868	0.86	41.26
960	-0.33	31.33
1710	-0.45	21.31
1850	-2.17	17.14
1990	-1.75	15.63
2170	-1.41	20.56
2300	-1.46	22.25
2500	-0.29	22.96
2690	-2.21	21.09
frequency (MHz)	gain (dBi)	efficiency (%)
2400	-2.29	17.74
2420	-2.87	15.50
2440	-3.5	12.79
2460	-3.73	11.95
2483	-5.36	10.05
4900	-0.94	30.02
5200	-0.92	23.49
5500	-2	20.66
5800	0.39	33.21

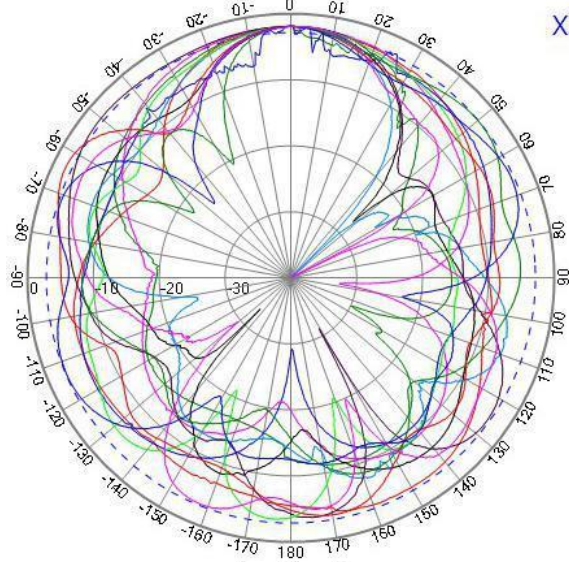
RADIATION PATTERNS: LTE MAIN ANTENNA

XY PLANE



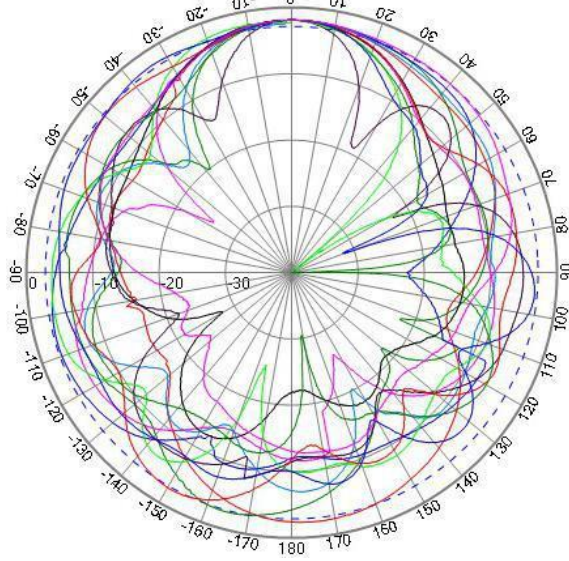
- Freq: 700
- Freq: 824
- Freq: 868
- Freq: 960
- Freq: 1710
- Freq: 1850
- Freq: 1990
- Freq: 2170
- Freq: 2300
- Freq: 2400
- Freq: 2500
- Freq: 2690

XZ PLANE



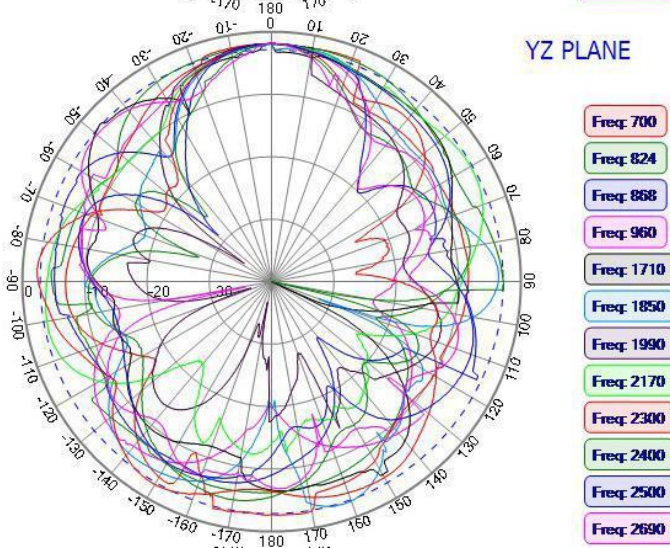
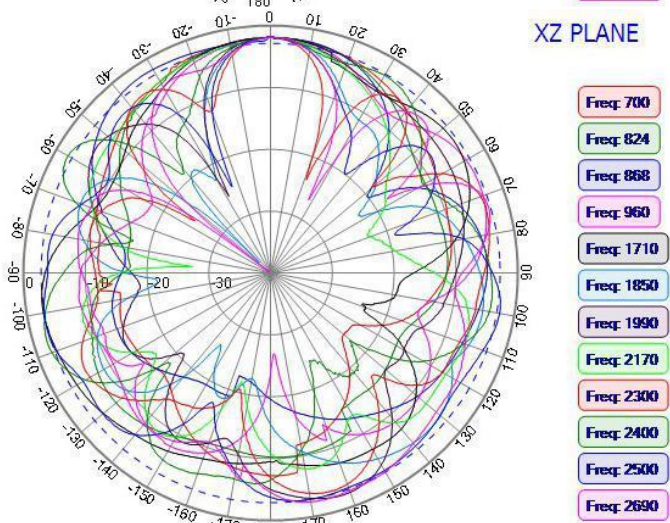
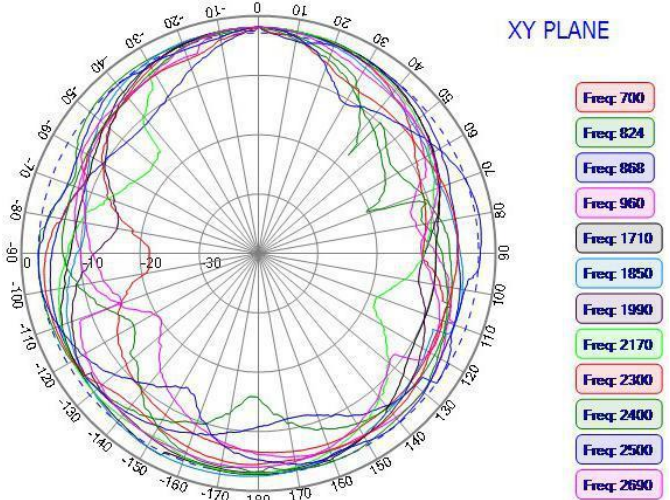
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- Freq: 1990
- Freq: 2170
- Freq: 2300
- Freq: 2400
- Freq: 2500
- Freq: 2690

YZ PLANE

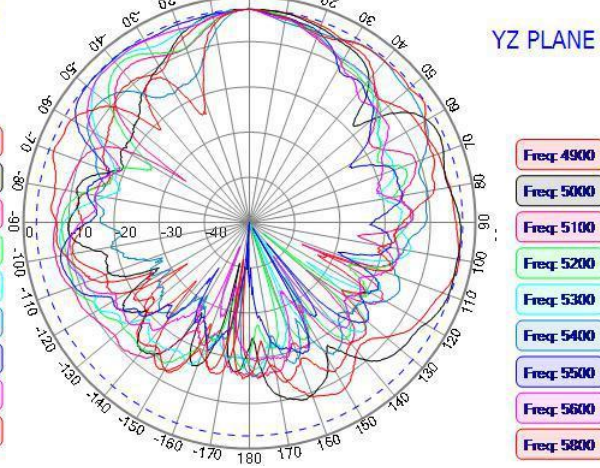
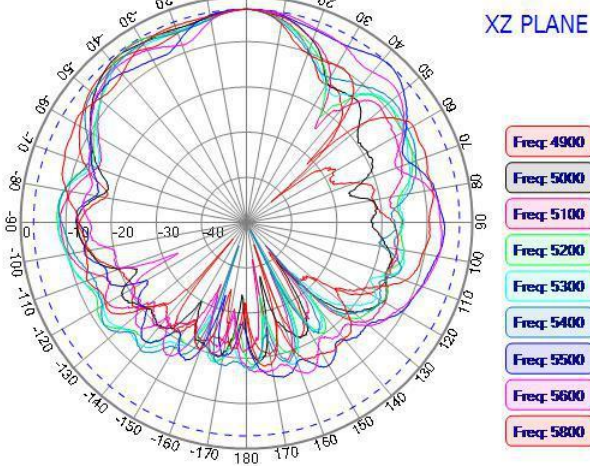
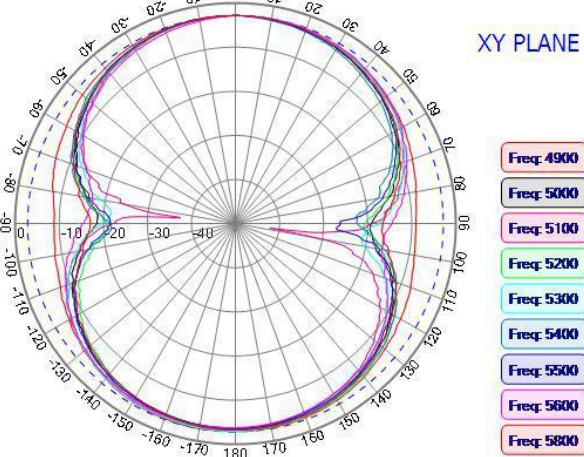
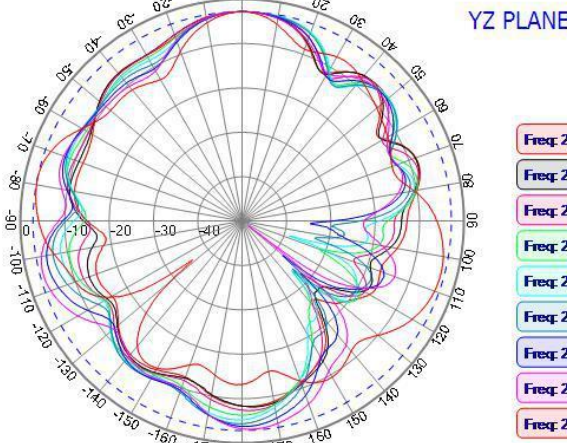
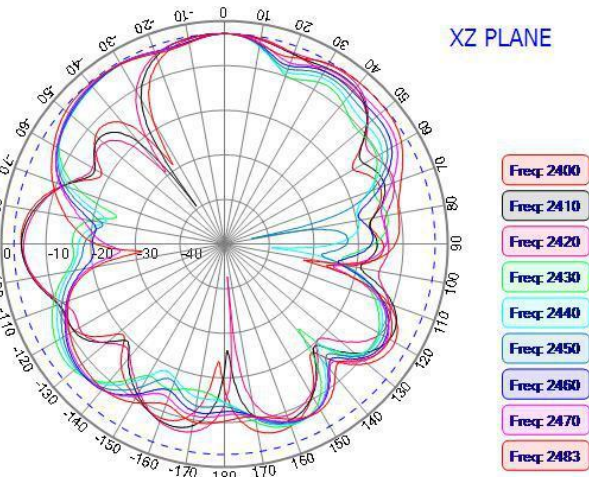
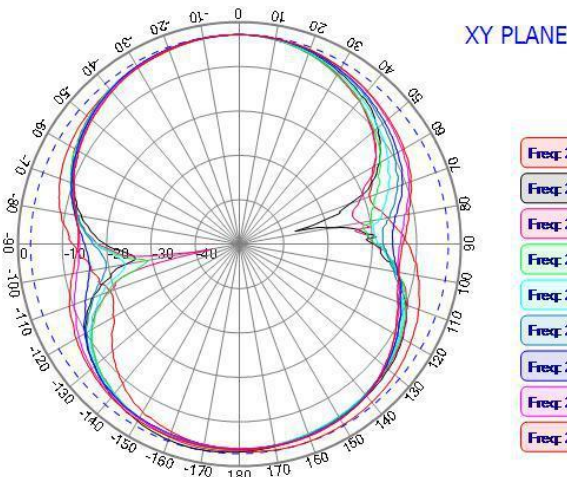


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RADIATION PATTERNS: LTE AUXILARY ANTENNA



RADIATION PATTERNS: Wi-Fi ANTENNA



RADIATION PATTERNS: GPS ANTENNA

