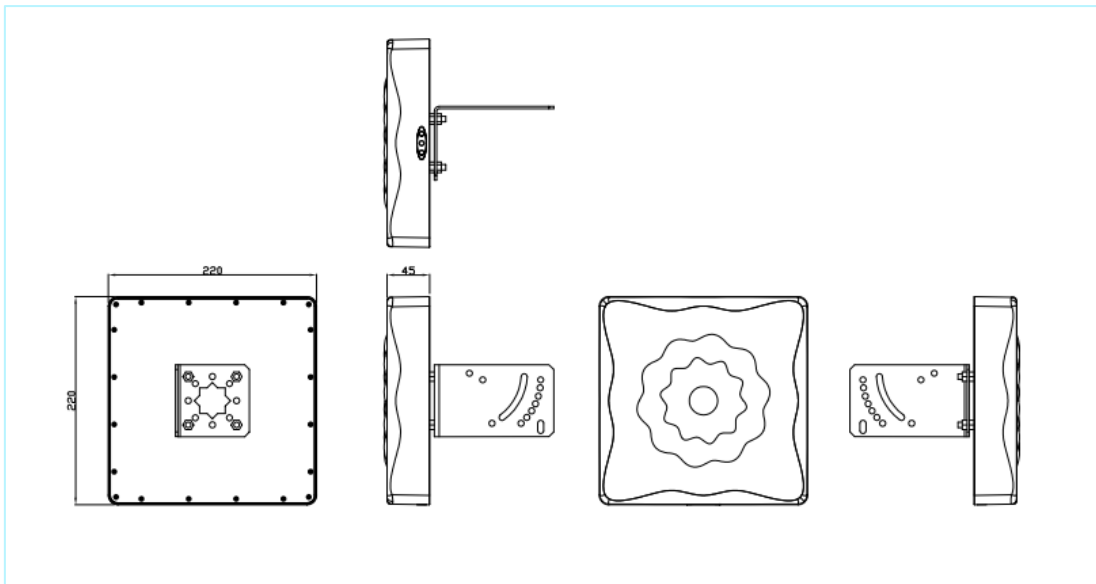


Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2



Mechanical dimension



Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Specifications

| Item | Specifications | |
|---------------|--------------------------|--|
| Antenna1 | Center Frequency | 600-8000MHz |
| | Polarization | Linear (+45°) |
| | Gain | 6.9dBi (Maxium) |
| | V.S.W.R | < 2.0 |
| | Impendance | 50Ω |
| | Isolation | 15dB |
| Antenna2 | Center Frequency | 600-8000MHz |
| | Polarization | Linear (-45°) |
| | Gain | 7.5dBi (Maximum) |
| | V.S.W.R | < 2.0 |
| | Impendance | 50Ω |
| | Isolation | 15dB |
| Mechanical | Dimension | 22cm*22cm*4.5cm |
| | Weight | 1380g |
| | Cable | Customizable |
| | Connector | SMA or others |
| | Mounting Method | U bolt /Screw |
| Environmental | Operating Temperature | -40°C~+85°C |
| | Waterproof | IP67 |
| | UV stabilized: | YES |
| | Vibration | 10 to 55Hz with 1.5mm amplitude 2hours |
| | Environmentally Friendly | ROHS Compliant |

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Product Configuration in Details



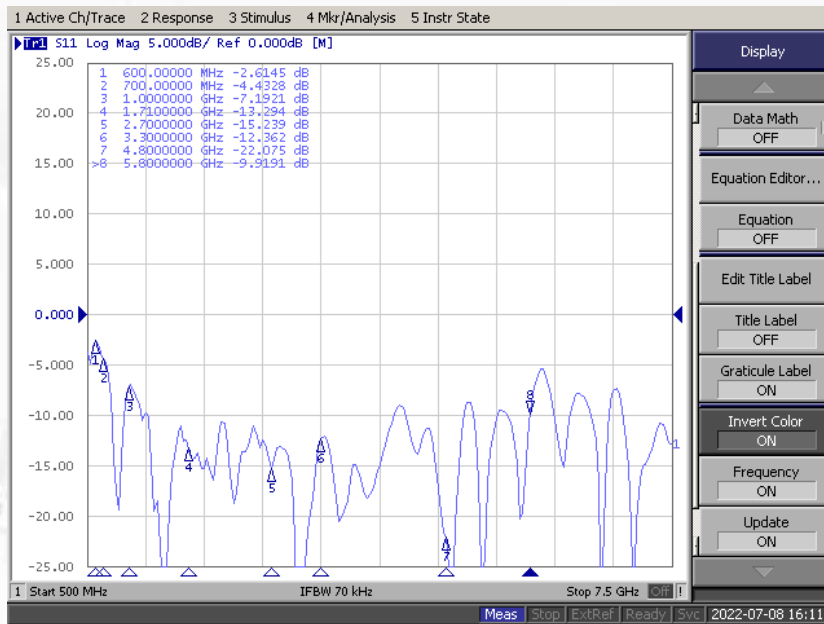
- ◆ Support all 5g, 4G, 3G, GSM and dual band WiFi bands in the world!
- ◆ Single antenna meets all wireless protocol needs, no need to buy other antenna!
- ◆ Up to 6dbi gain for various signal transmitting and receiving scenarios!

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

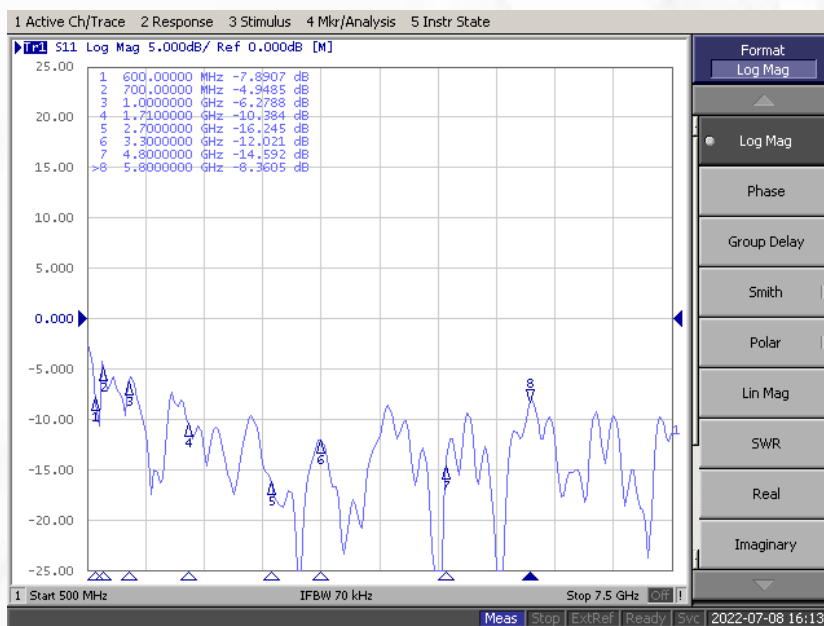
AN_Master_001-2

Measured results:

S11



Antenna 1 (Main)



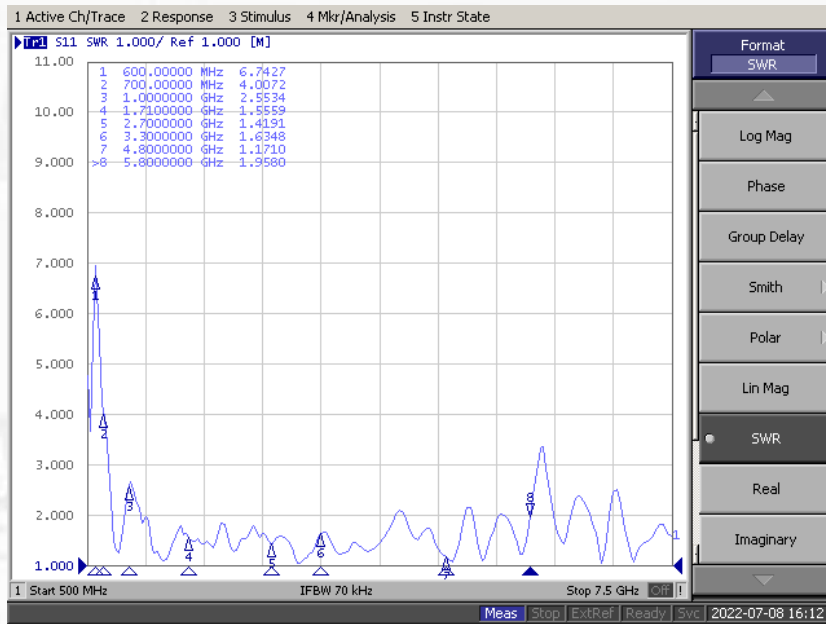
Antenna 2 (AUX)

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

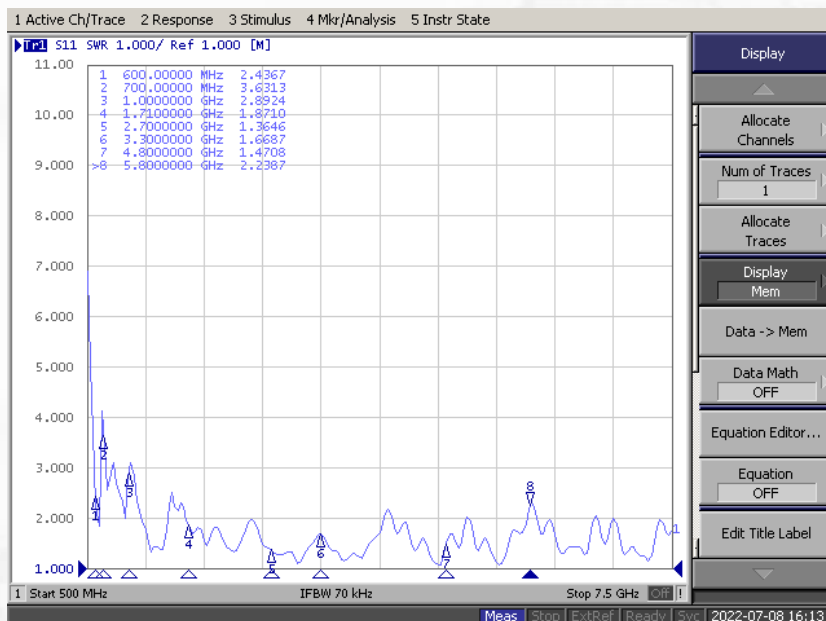
AN_Master_001-2

Measured results:

VSWR



Antenna 1 (Main)



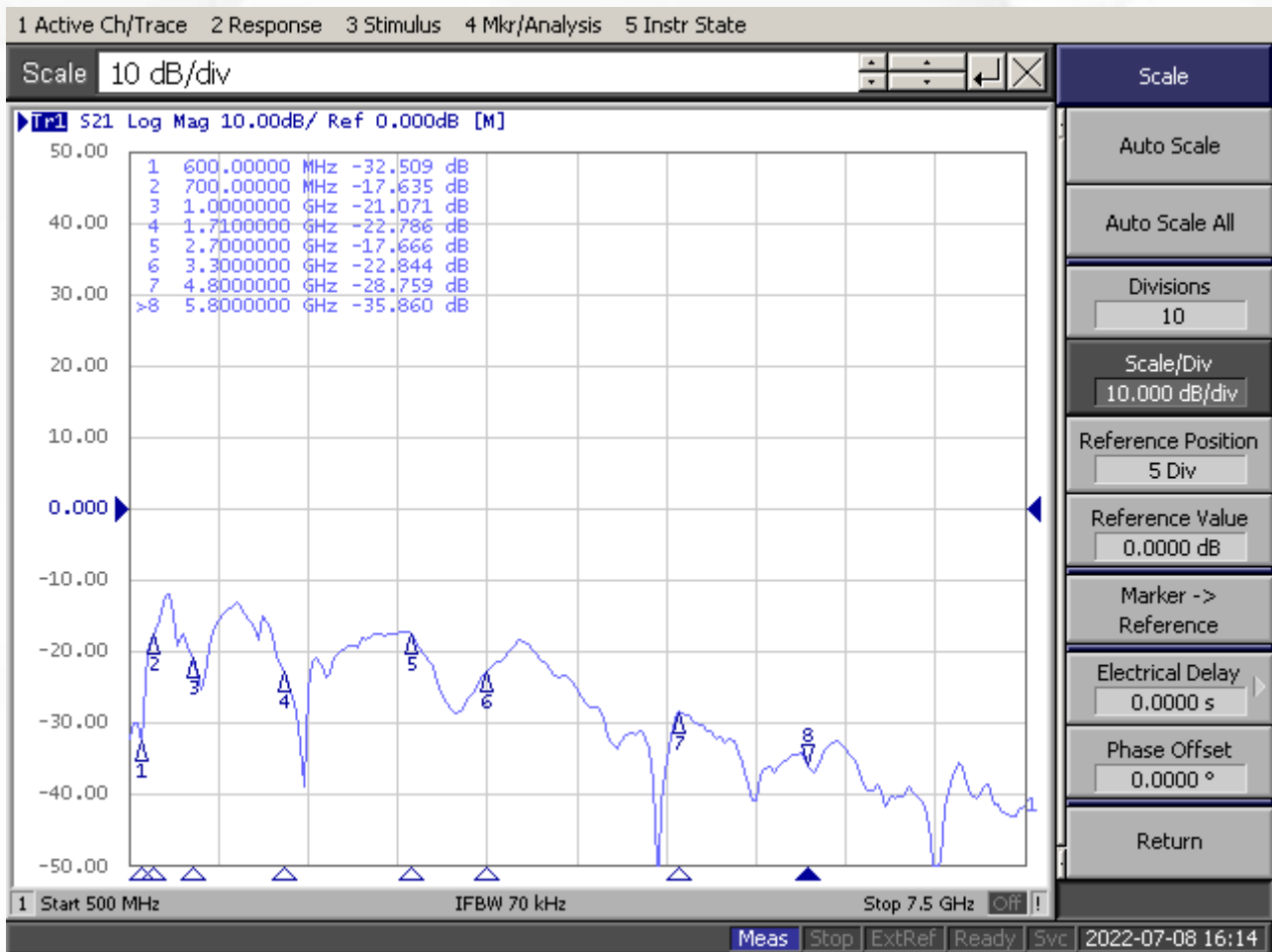
Antenna 2 (AUX)

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Measured results:

Isolation

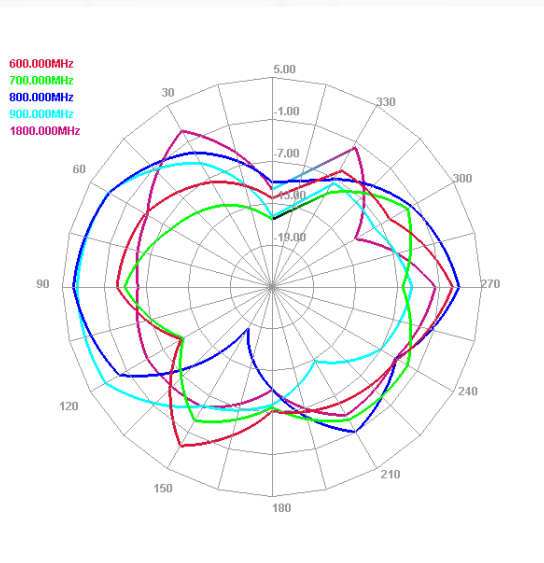


Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

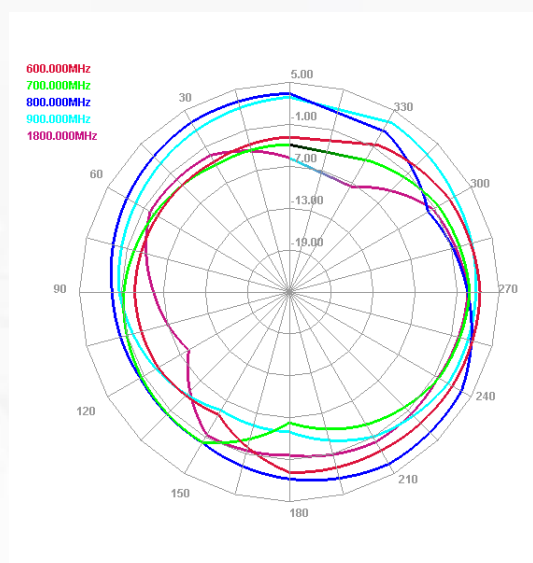
AN_Master_001-2

Radiation pattern: low frequency

Antenna 1

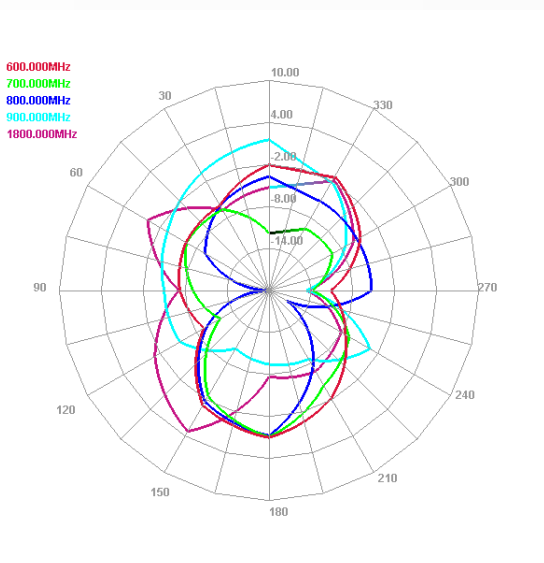


E plane

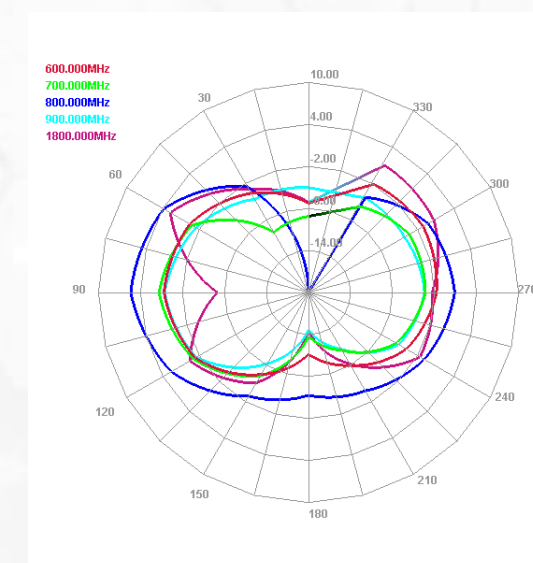


H plane

Antenna 2



E plane



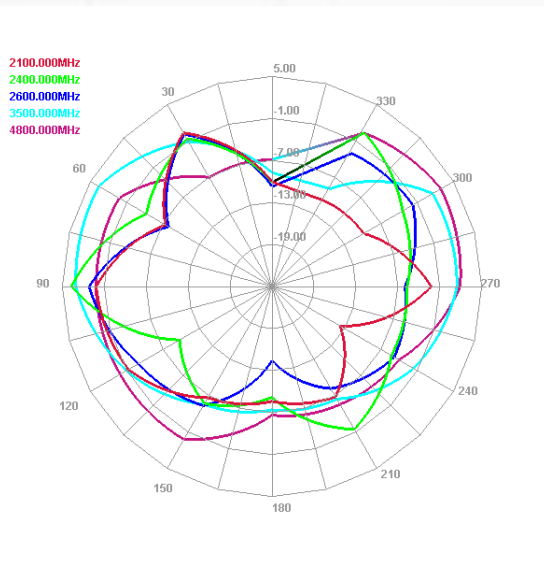
H plane

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

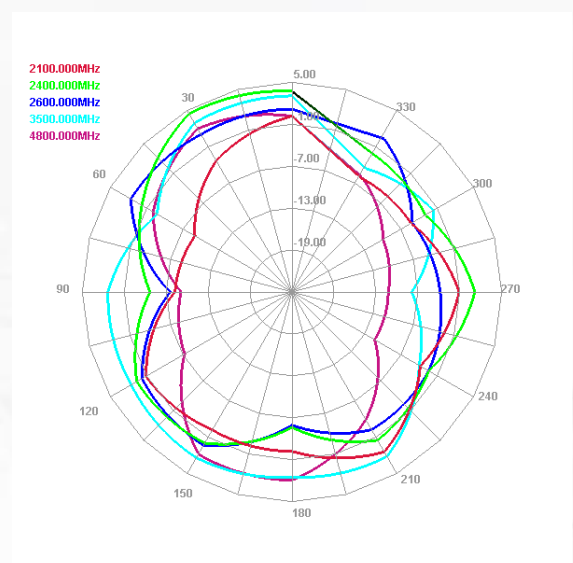
AN_Master_001-2

Radiation pattern: medium frequency

Antenna 1

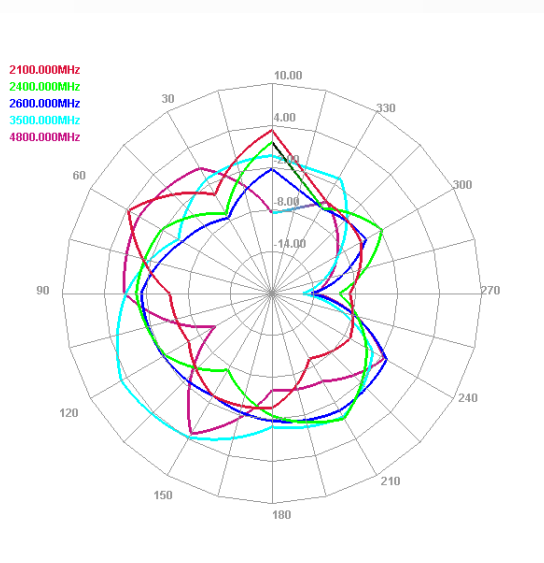


E plane

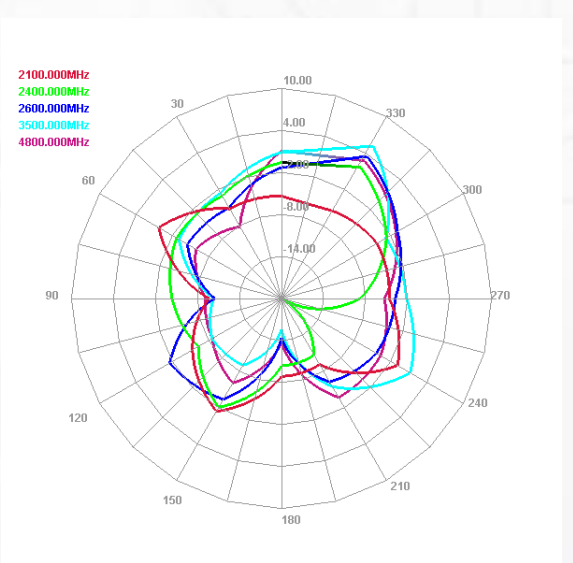


H plane

Antenna 2



E plane



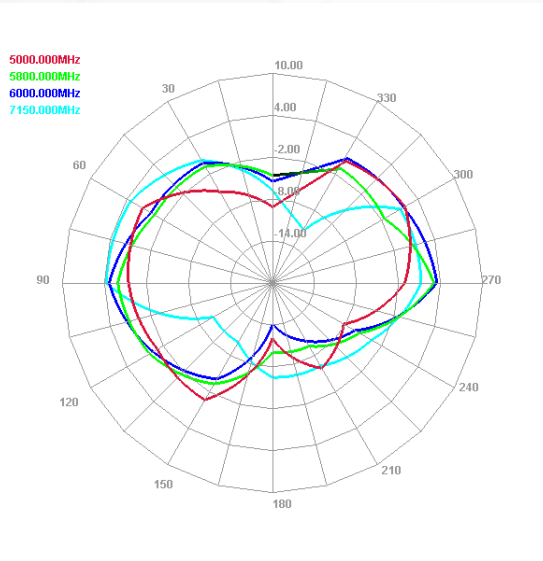
H plane

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

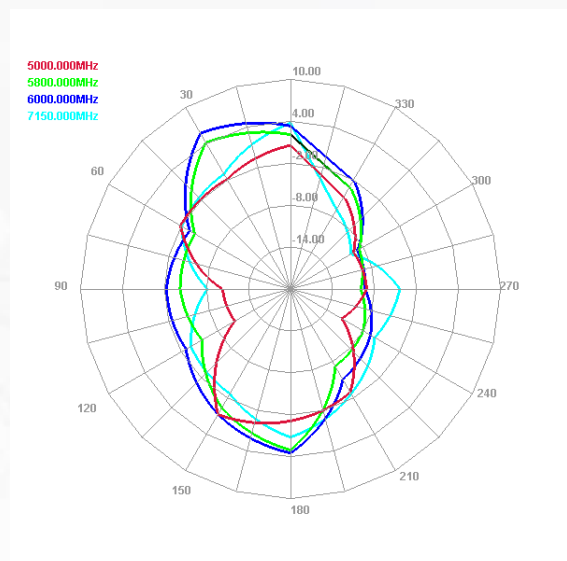
AN_Master_001-2

Radiation pattern: high frequency

Antenna 1

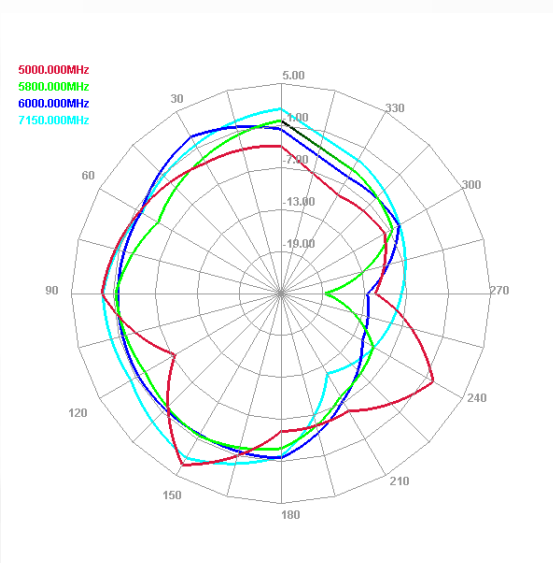


E plane

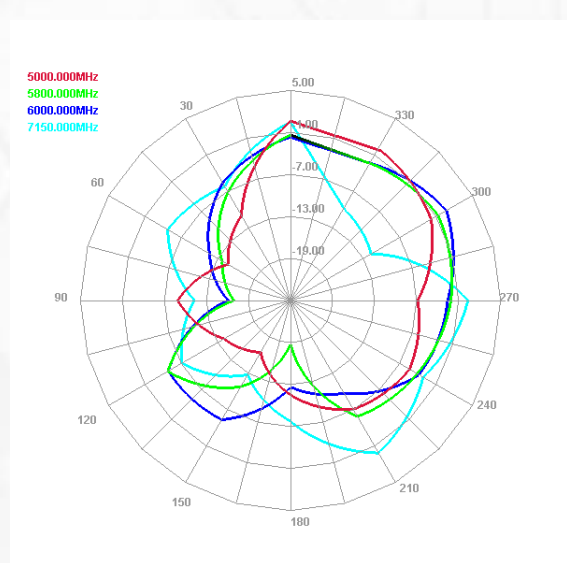


H plane

Antenna 2



E plane



H plane

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Measured Gain Performances (Antenna 1)

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 600 | 49.54 | 2.25 |
| 650 | 50.1 | 0.8 |
| 700 | 51.47 | 1.35 |
| 750 | 60.18 | 2.34 |
| 800 | 82.03 | 3.43 |
| 850 | 79.01 | 4.01 |
| 900 | 72.49 | 3.32 |
| 950 | 66.85 | 3.61 |
| 1000 | 81.02 | 4.93 |
| 1050 | 85.14 | 5.45 |
| 1100 | 84.27 | 5.4 |
| 1150 | 92.99 | 5.74 |
| 1200 | 95.46 | 5.66 |
| 1250 | 100.65 | 6.93 |
| 1300 | 102.41 | 6.81 |
| 1350 | 91.17 | 5.79 |
| 1400 | 89.87 | 5.69 |
| 1450 | 104.09 | 6.18 |
| 1500 | 86.43 | 3.81 |
| 1550 | 84.55 | 4.42 |
| 1600 | 85.16 | 3.56 |
| 1650 | 81.36 | 3.31 |
| 1700 | 77.23 | 3.77 |
| 1750 | 79.44 | 4.55 |
| 1800 | 75.3 | 4.57 |
| 1850 | 73.69 | 3.98 |
| 1900 | 78.16 | 3.89 |
| 1950 | 75.08 | 3.71 |
| 2000 | 73.63 | 3.8 |
| 2050 | 73.16 | 4.25 |
| 2100 | 73.43 | 4.39 |
| 2150 | 60.17 | 3.86 |
| 2200 | 65.77 | 4.16 |
| 2250 | 75.59 | 4.03 |
| 2300 | 77.7 | 5 |
| 2350 | 82.09 | 5.28 |
| 2400 | 81.84 | 4.54 |

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 2450 | 70.47 | 3.61 |
| 2500 | 69.82 | 3.35 |
| 2550 | 65.57 | 2.92 |
| 2600 | 65.75 | 3.57 |
| 2650 | 65.14 | 3.53 |
| 2700 | 65.84 | 3.81 |
| 2750 | 64.06 | 4.35 |
| 2800 | 85.73 | 5.64 |
| 2850 | 92.29 | 6.11 |
| 2900 | 92.25 | 6.45 |
| 2950 | 90.27 | 6.37 |
| 3000 | 90.46 | 5.81 |
| 3050 | 91.58 | 5.65 |
| 3100 | 95.75 | 5.22 |
| 3150 | 92.07 | 4.8 |
| 3200 | 98.23 | 4.33 |
| 3250 | 99.58 | 4.54 |
| 3300 | 98.7 | 4.49 |
| 3350 | 102.45 | 4.65 |
| 3400 | 103.74 | 4.41 |
| 3450 | 101.54 | 4.57 |
| 3500 | 95.24 | 4.54 |
| 3550 | 89.64 | 3.72 |
| 3600 | 91.01 | 3.99 |
| 3650 | 89.07 | 3.92 |
| 3700 | 79.67 | 3.82 |
| 3750 | 78.62 | 4.44 |
| 3800 | 76.35 | 3.92 |
| 3850 | 72.34 | 3.93 |
| 3900 | 74.33 | 4.79 |
| 3950 | 74.49 | 4.67 |
| 4000 | 74.22 | 4.35 |
| 4050 | 73.18 | 3.78 |
| 4100 | 69.43 | 4.07 |
| 4150 | 66.04 | 4.43 |
| 4200 | 65.91 | 4.62 |
| 4250 | 62.72 | 4.49 |

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Measured Gain Performances (Antenna 1)

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 4300 | 62.41 | 4.78 |
| 4350 | 63.11 | 4.7 |
| 4400 | 59.93 | 4.29 |
| 4450 | 60.25 | 4.4 |
| 4500 | 64.17 | 4.6 |
| 4550 | 61.73 | 4.51 |
| 4600 | 60.54 | 4.4 |
| 4650 | 65.3 | 4.28 |
| 4700 | 65.02 | 3.8 |
| 4750 | 62.39 | 3.45 |
| 4800 | 65.41 | 3.53 |
| 4850 | 60.62 | 3.07 |
| 4900 | 59.17 | 2.91 |
| 4950 | 54.59 | 2.77 |
| 5000 | 52.88 | 3 |
| 5050 | 49.38 | 2.77 |
| 5100 | 49.82 | 3.01 |
| 5150 | 47.96 | 3 |
| 5200 | 46.45 | 2.75 |
| 5250 | 48.24 | 2.73 |
| 5300 | 46.9 | 2.57 |
| 5350 | 51.49 | 2.75 |
| 5400 | 52.92 | 2.72 |
| 5450 | 52.15 | 2.35 |
| 5500 | 53.68 | 2.24 |
| 5550 | 54.67 | 2.18 |
| 5600 | 56.31 | 2.91 |
| 5650 | 57.85 | 3.54 |
| 5700 | 56.73 | 3.74 |
| 5750 | 56.66 | 4.21 |
| 5800 | 51.22 | 4.18 |
| 5850 | 51.9 | 4.24 |
| 5900 | 47.12 | 4.24 |
| 5950 | 61.48 | 5.51 |
| 6000 | 60.53 | 5.74 |
| 6050 | 65.05 | 5.93 |
| 6100 | 57.56 | 5.64 |

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 6150 | 53.76 | 5.53 |
| 6200 | 51.41 | 5.19 |
| 6250 | 47.68 | 4.89 |
| 6300 | 47.86 | 4.69 |
| 6350 | 53.57 | 4.97 |
| 6400 | 54.29 | 4.67 |
| 6450 | 53.59 | 4.24 |
| 6500 | 59.93 | 4.3 |
| 6550 | 63.02 | 4.09 |
| 6600 | 61.93 | 4.2 |
| 6650 | 59.87 | 4.55 |
| 6700 | 58.86 | 5.08 |
| 6750 | 54.61 | 4.98 |
| 6800 | 52.16 | 5.13 |
| 6850 | 53.05 | 5.47 |
| 6900 | 50.18 | 5.58 |
| 6950 | 47.52 | 5.48 |
| 7000 | 48.07 | 5.63 |
| 7050 | 55.5 | 5.87 |
| 7100 | 56.8 | 5.71 |
| 7150 | 58.23 | 5.71 |
| 7200 | 59.98 | 5.56 |
| 7250 | 59.2 | 5.42 |
| 7300 | 58.49 | 5.49 |
| 7350 | 53.98 | 5.28 |
| 7400 | 51.96 | 5.1 |
| 7450 | 44.9 | 4.32 |
| 7500 | 44.93 | 4.15 |
| 7550 | 48.61 | 4.49 |
| 7600 | 50.21 | 3.68 |
| 7650 | 45.58 | 3.38 |
| 7700 | 47.25 | 3.61 |
| 7750 | 49 | 3.6 |
| 7800 | 52.29 | 3.77 |
| 7850 | 51.46 | 3.28 |
| 7900 | 63.93 | 3.92 |
| 7950 | 73.56 | 4.64 |
| 8000 | 70.04 | 4.88 |

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Measured Gain Performances (Antenna 2)

| Freq (MHz) | Effi (%) | Gain (dBi) | Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|------------|----------|------------|
| 600 | 55.67 | 0.99 | 2450 | 66.57 | 4.4 |
| 650 | 62.8 | 1.82 | 2500 | 68.9 | 4.32 |
| 700 | 39.5 | 2.1 | 2550 | 69.49 | 4.39 |
| 750 | 57.14 | 2.54 | 2600 | 75.92 | 4.6 |
| 800 | 70.78 | 5.38 | 2650 | 74.07 | 4 |
| 850 | 57.67 | 2.63 | 2700 | 69.81 | 3.6 |
| 900 | 51.13 | 1.53 | 2750 | 69.28 | 4.51 |
| 950 | 71.15 | 2.41 | 2800 | 94.17 | 5.8 |
| 1000 | 70.4 | 3.13 | 2850 | 92.58 | 5.44 |
| 1050 | 64.55 | 4.14 | 2900 | 87.19 | 5.55 |
| 1100 | 74.5 | 5.78 | 2950 | 86.4 | 5.5 |
| 1150 | 89.91 | 6.27 | 3000 | 87.31 | 5.81 |
| 1200 | 99.54 | 6.33 | 3050 | 85.45 | 5.89 |
| 1250 | 94.43 | 6.33 | 3100 | 85.92 | 5.55 |
| 1300 | 92.32 | 6.11 | 3150 | 84.29 | 5.28 |
| 1350 | 88.66 | 5.53 | 3200 | 87.86 | 6.02 |
| 1400 | 88.54 | 4.74 | 3250 | 90.66 | 6.48 |
| 1450 | 86.23 | 4.67 | 3300 | 91.79 | 6.6 |
| 1500 | 66.32 | 3.77 | 3350 | 91.63 | 6.71 |
| 1550 | 63.79 | 3.92 | 3400 | 95.4 | 7.21 |
| 1600 | 66.1 | 4.15 | 3450 | 94.66 | 7.56 |
| 1650 | 60.77 | 3.87 | 3500 | 92.2 | 7.26 |
| 1700 | 58.63 | 4.31 | 3550 | 89.08 | 7.05 |
| 1750 | 65.18 | 3.61 | 3600 | 88.13 | 6.64 |
| 1800 | 64.58 | 3.26 | 3650 | 85.7 | 6.41 |
| 1850 | 62.47 | 2.39 | 3700 | 81.91 | 5.77 |
| 1900 | 67.7 | 2.72 | 3750 | 78.08 | 5.17 |
| 1950 | 65.75 | 3.44 | 3800 | 72.6 | 4.97 |
| 2000 | 57.66 | 2.88 | 3850 | 69.89 | 4.71 |
| 2050 | 61.78 | 3.93 | 3900 | 74.99 | 5.11 |
| 2100 | 70.16 | 4.97 | 3950 | 74.68 | 4.92 |
| 2150 | 54.42 | 3.31 | 4000 | 68.4 | 4.71 |
| 2200 | 59.29 | 3.34 | 4050 | 64.69 | 4.79 |
| 2250 | 66.4 | 3.49 | 4100 | 65.26 | 4.55 |
| 2300 | 70.84 | 3.87 | 4150 | 69.62 | 4.66 |
| 2350 | 77.37 | 4.67 | 4200 | 70.37 | 4.65 |
| 2400 | 76.14 | 4.77 | 4250 | 67.07 | 4.42 |

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Measured Gain Performances (Antenna 2)

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 4300 | 67.33 | 4.17 |
| 4350 | 64.74 | 3.76 |
| 4400 | 61.97 | 3.64 |
| 4450 | 58.92 | 3.67 |
| 4500 | 61.96 | 4.12 |
| 4550 | 65.12 | 4.42 |
| 4600 | 63.99 | 4.4 |
| 4650 | 65.22 | 4.34 |
| 4700 | 64.36 | 3.99 |
| 4750 | 61.14 | 3.38 |
| 4800 | 61.96 | 3.74 |
| 4850 | 59.15 | 3.66 |
| 4900 | 58.73 | 4 |
| 4950 | 51.24 | 3.77 |
| 5000 | 47.29 | 3.57 |
| 5050 | 45.41 | 3.77 |
| 5100 | 51.9 | 4.61 |
| 5150 | 55.25 | 5.01 |
| 5200 | 51.63 | 4.75 |
| 5250 | 50.9 | 4.67 |
| 5300 | 50.08 | 4.57 |
| 5350 | 55.25 | 4.96 |
| 5400 | 53.75 | 4.95 |
| 5450 | 51.35 | 4.72 |
| 5500 | 49.78 | 4.64 |
| 5550 | 47.17 | 4.48 |
| 5600 | 48.72 | 4.74 |
| 5650 | 51.44 | 5.17 |
| 5700 | 47.96 | 4.79 |
| 5750 | 44.66 | 4.65 |
| 5800 | 40.88 | 4.2 |
| 5850 | 45.35 | 4.46 |
| 5900 | 43.37 | 3.96 |
| 5950 | 52.69 | 4.55 |
| 6000 | 51.21 | 4.83 |
| 6050 | 58.81 | 5.78 |
| 6100 | 56.23 | 5.69 |

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 6150 | 49.65 | 5.23 |
| 6200 | 42.8 | 3.94 |
| 6250 | 37.84 | 2.7 |
| 6300 | 36.93 | 1.96 |
| 6350 | 39.51 | 2.27 |
| 6400 | 39.46 | 2.5 |
| 6450 | 39.01 | 1.87 |
| 6500 | 40.56 | 2.35 |
| 6550 | 39.49 | 2.19 |
| 6600 | 38.98 | 1.9 |
| 6650 | 35.28 | 1.3 |
| 6700 | 33.11 | 1.2 |
| 6750 | 31.18 | 1.23 |
| 6800 | 32.05 | 2.04 |
| 6850 | 34.35 | 2.72 |
| 6900 | 32.55 | 2.94 |
| 6950 | 30.17 | 2.43 |
| 7000 | 32.85 | 2.5 |
| 7050 | 38.94 | 3.07 |
| 7100 | 41.17 | 3.75 |
| 7150 | 40.83 | 3.88 |
| 7200 | 42.03 | 4.31 |
| 7250 | 39.7 | 4.37 |
| 7300 | 40.57 | 4.34 |
| 7350 | 43.78 | 4.7 |
| 7400 | 45.46 | 4.73 |
| 7450 | 42.2 | 4.09 |
| 7500 | 43.49 | 4.37 |
| 7550 | 51.26 | 5.1 |
| 7600 | 52.89 | 5.21 |
| 7650 | 46.62 | 4.43 |
| 7700 | 49.93 | 5.05 |
| 7750 | 57.97 | 5.65 |
| 7800 | 66.48 | 6.04 |
| 7850 | 60.87 | 5.24 |
| 7900 | 61.7 | 5.21 |
| 7950 | 66.31 | 5.44 |
| 8000 | 69.35 | 5.2 |

Maswell 5G/4G/WiFi MIMO Panel Antenna 600-8000MHz

AN_Master_001-2

Package

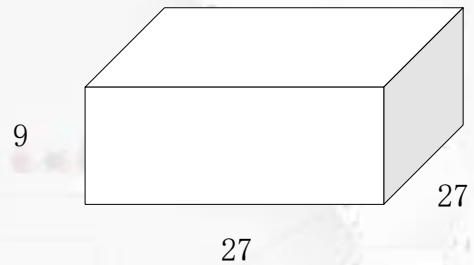
AN_Master_001-2

Package with one cartoon:

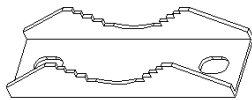
Cable dimension: 27cm*27cm*9cm

Antenna weight: 1380g

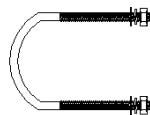
Unit:cm



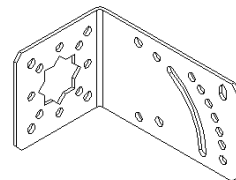
Installation Guide



2PCS



2PCS



1PCS

