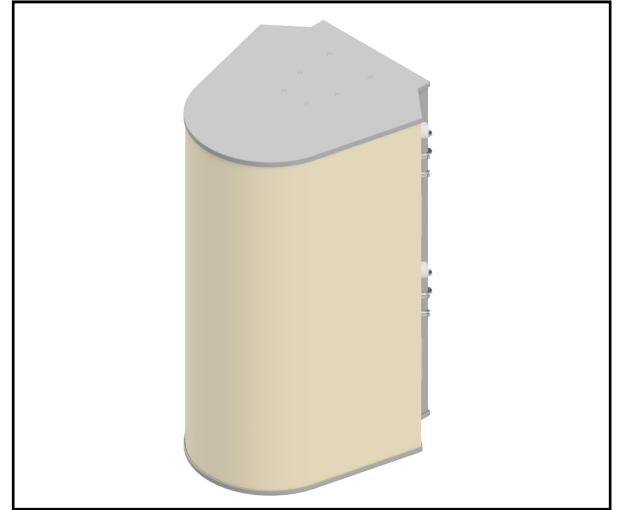


MS-MBA-4.4-SH2-SH2-45M

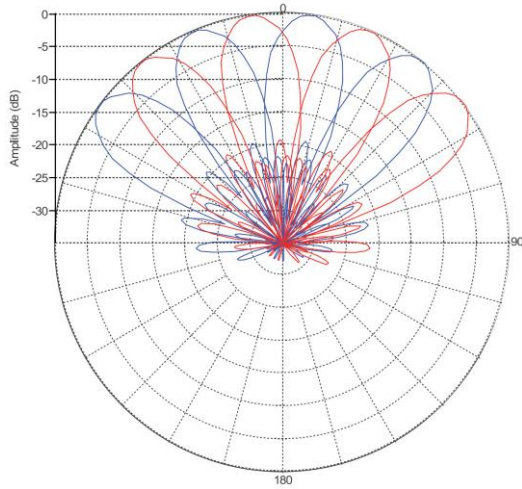
Multi-Beam Dual Band Spherical Lens Antenna: 8 independent high-frequency (2.3 – 2.4GHz / 3.4 – 3.6GHz) cross-polarized beams with 2X2 MIMO support.

Each beam has independent tilt 0° to 15°.

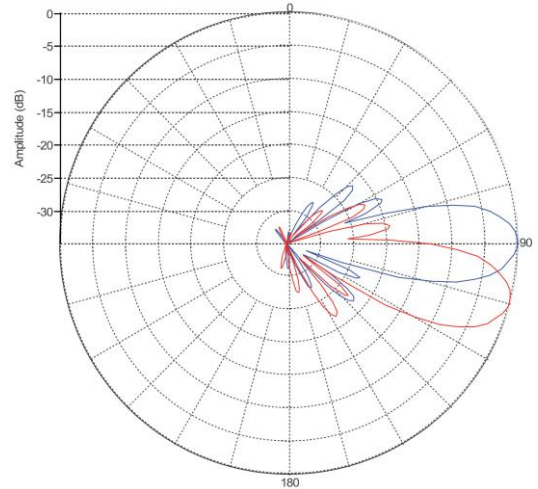


PATTERN RESULTS:

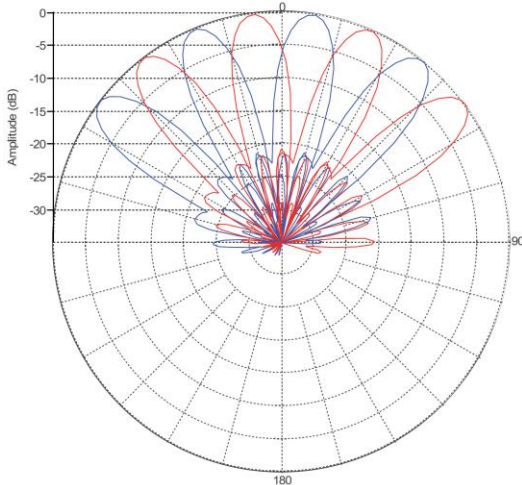
Horizontal Pattern (2.35GHz)



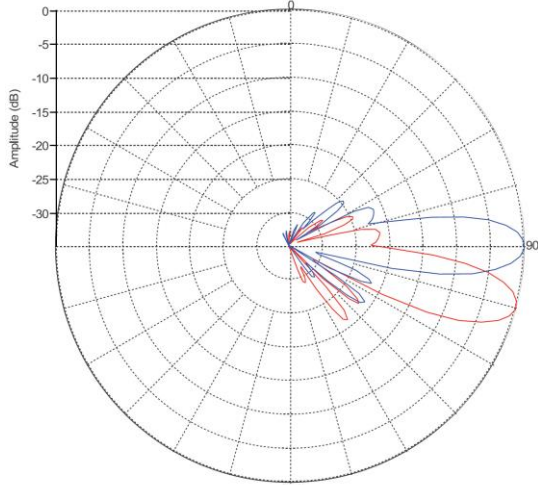
Vertical Pattern (2.35GHz) at tilt 0° and 15°



Horizontal Pattern (3.5GHz)



Vertical Pattern (3.5GHz) at tilt 0° and 15°



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	2.3 - 2.4GHz	3.4 - 3.6GHz
Gain	19.5dBi	22.0dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level)	28°	19°
Horizontal Beamwidth (3dB level)	16°	11°
Vertical Beamwidth (10dB level)	28°	19°
Vertical Beamwidth (3dB level)	16°	11°
Beam Cross-over	3dB	5.5dB
Total Number of Beams	8	
Total Number of Ports	16	
Tilt Per Cross-Pol	0° to 15°	
Sidelobe Level	-20dB Typical	-20dB typical
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port - Polarization	>28dB	>28dB
Isolation Port to Port - Beam	>28dB	>28dB
Power Rating	150W per port	150W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	4 x MQ4	

MECHANICAL DATA

Dimensions (H x W x D)	110.2 x 61.7 x 72 cm 43.4 x 24.3 x 28.4 inch
Antenna Weight	38kg 84lbs
Radome Material	Fiber Glass
Mounting	Adjustable Clamps Compatible pipe diameter: 6.1 – 11.4 cm 2.4 – 4.5 inch

ENVIRONMENTAL RATINGS

Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind load @ 150km / hr	Units (N / lbf) Frontal: 473 / 106.3 Lateral: 638 / 143.4 Rear: 555 / 124.81

CONNECTOR LAYOUT:

