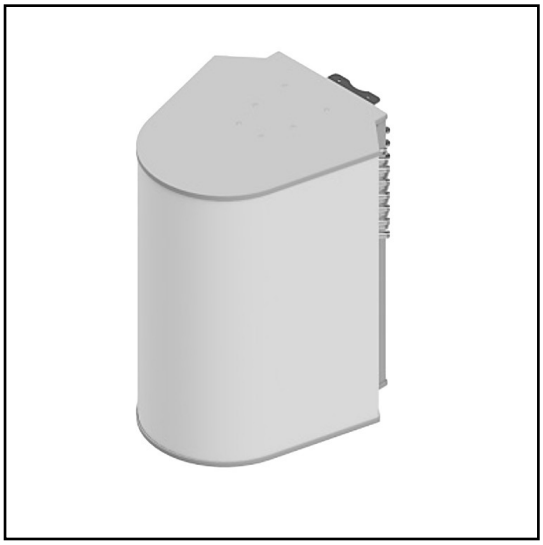
MATSING®

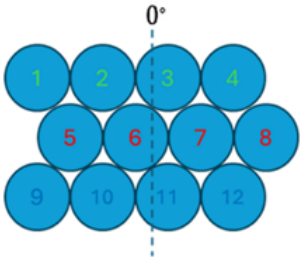
LENS TECHNOLOGY ENABLED



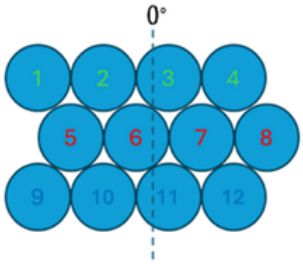
MS-MBA-12.12-F2-H2

Lens Technology Enabled™ Multi- Beam Dual Band Base- Station Antenna utilizes a patented spherical lens design with 3 rows of 4 independent F-Band (3300 MHz– 4200 MHz) cross- polarized beams and 3 rows of 4 independent High Band (1695 MHz – 2690MHz) cross-polarized beam. Each beam has 2 ports to support 2X2 MIMO.

BEAM LAYOUT:



F-Band



H-Band

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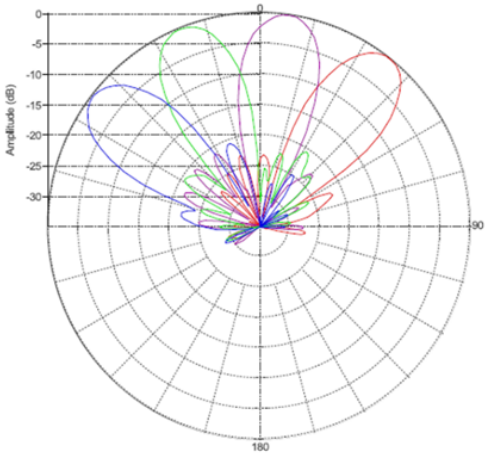
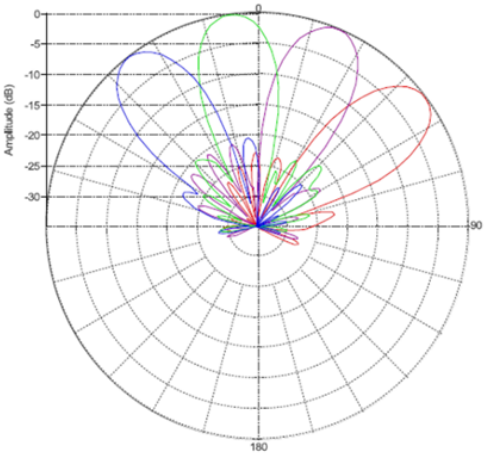
PATTERN RESULTS:

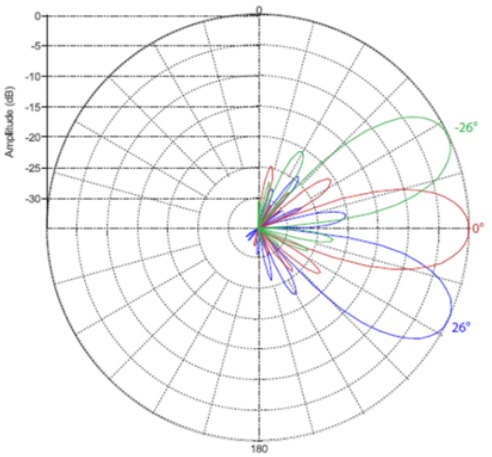
F-Band Horizontal Pattern (3.6GHz)
Row 1 & Row 3



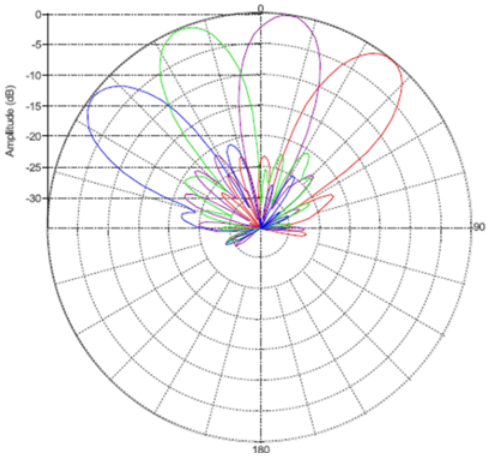
F-Band Horizontal Pattern (3.6GHz)
Row 2



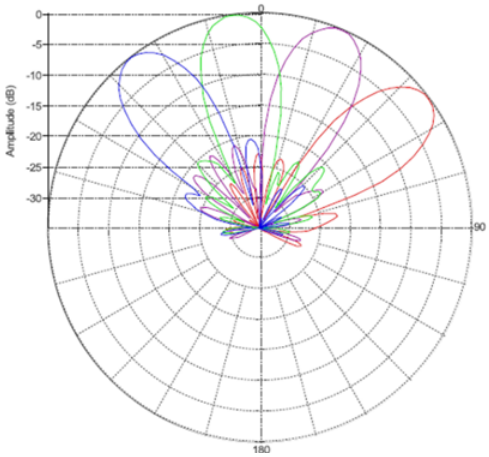
F-Band Vertical Pattern (3.6GHz)



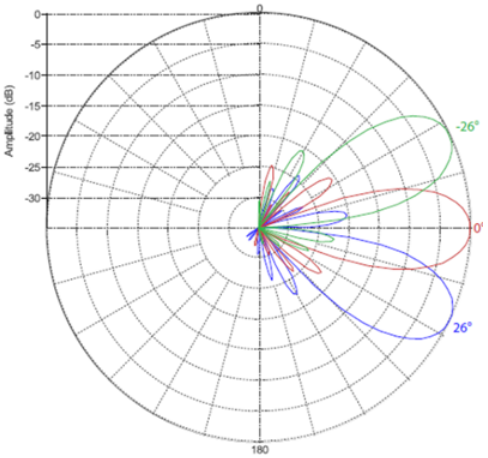
High-Band Horizontal Pattern (1.92GHz)
Row 1 & Row 3



High-Band Horizontal Pattern (1.92GHz)
Row 2



High-Band Vertical Pattern (1.92GHz)



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LENS TECHNOLOGY ENABLED

MS-MBA-12.12-F2-H2

TECHNICAL SPECIFICATIONS PER BEAM

Frequency	3300-4200 MHz	1695-2690 MHz
Gain	17dBi	19dBi
VSWR	<1.5:1	<1.5:1
Polarization	Dual Slant ±45°	Dual Slant ±45°
Horizontal Coverage	120°	120°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	34° 19°	30° 17°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	34° 19°	30° 17°
Beam Cross-over	10dB typical	10dB typical
Total Number of Beams	12	12
Number of Ports per Beam	2	2
Number of Ports Total	24	24
First Sidelobe Level	<-16dB	<-16dB
Front to Back Ratio	>28dB	>28dB
Isolation Port to Port - Polarization	>28dB	>28dB
Isolation Port to Port - Beam	>28dB	>28dB
Power Rating	50W per port	50W per port
Intermodulation	<-153dBc	<-153dBc
Impedance	50 ohm	50 ohm
Connector Quantity and Type	24 x 4.3-10 female	24 x 4.3-10 female

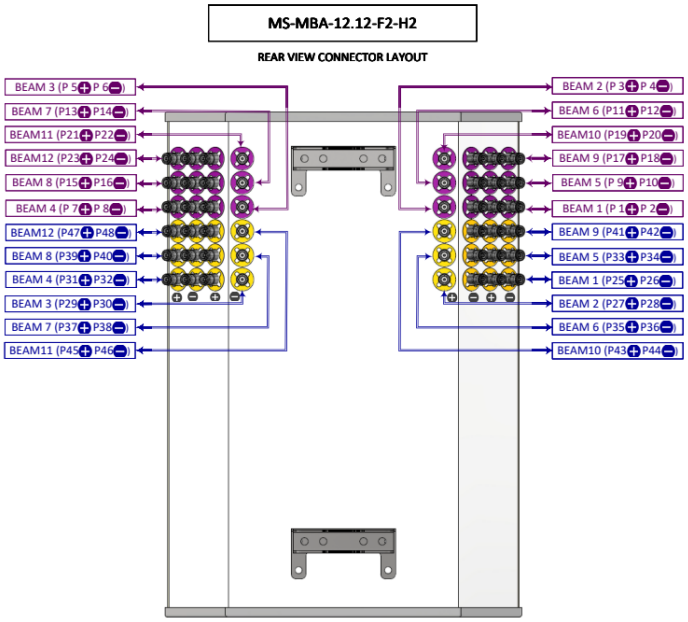
MECHANICAL DATA

Dimensions (H x W x D)	877 x 619 x 642 mm 34.5 x 24.3 x 25.3 inch
Antenna Weight	31.80 kg 70.1 lbs
Radome Material	Fiber Glass
Mounting	Standard pipe mount 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/h	N/lbf Frontal: 381/85.7 Lateral: 591/132.9 Rear: 447/100.5

CONNECTOR LAYOUT:



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