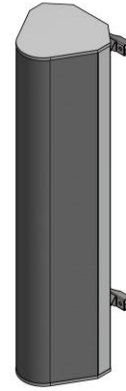


MS-MBA-4-F4A3

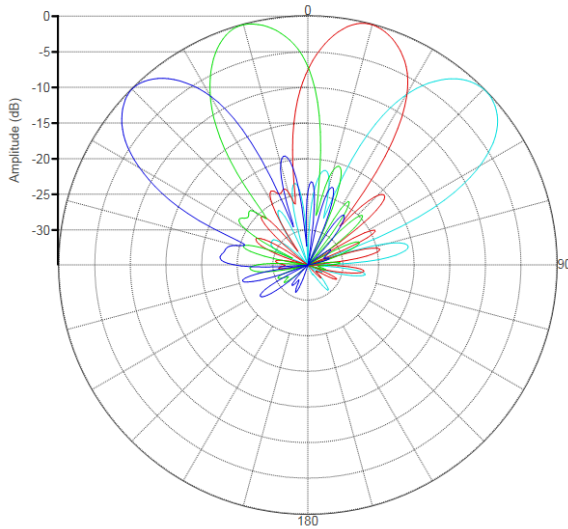
Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for multi-sector cell site deployments, utilizes a patented spherical lens design with 4 isolated F-Band (3300–4200MHz) cross-polarized beams. Each Beam has 4 ports or 4x4 MIMO and RET capability from 0° - 15°.



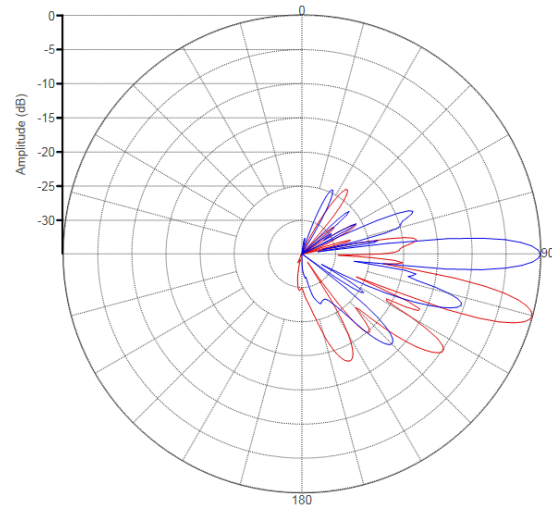
PRELIMINARY

PATTERN RESULTS:

Horizontal Pattern (3.6GHz)



Vertical Pattern at 0° and 15° (3.6GHz)



TECHNICAL SPECIFICATIONS

Frequency	3300 – 4200 MHz
Gain	23dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45
Horizontal Coverage	120°
Horizontal Beamwidth (10dB)	34°
Horizontal Beamwidth (3dB)	19°
Vertical Beamwidth (3dB)	6.5°
Beam Cross-over	8dB typical
Total Number of Beams	4
Number of Ports per Beam	4
Number of Ports Total	16
Tilt Per Beam	0° - 15°
Remote Electrical Tilt (AISG 2.0)	
Upper Side Lobe Suppression	16dB
Azimuth Sidelobe Level	-18dB
Front to Back Ratio	28dB
Isolation Port to Port -Polarization	28dB
Isolation Port to Port – Beam	28dB
Power Rating	150W per port
Intermodulation	<-153dBc
Impedance	50 Ohm
Connector Quantity and Type	16 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	144 x 36 x 36 cm
	57 x 14 x 14 inch
Antenna Weight	15 kg
	33 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 Frontal	TBD

PRELIMINARY