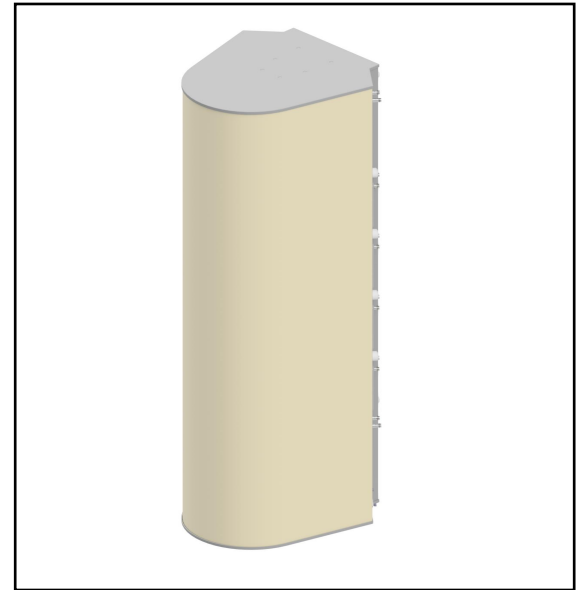


MS-MBA-3.2-H8-L4

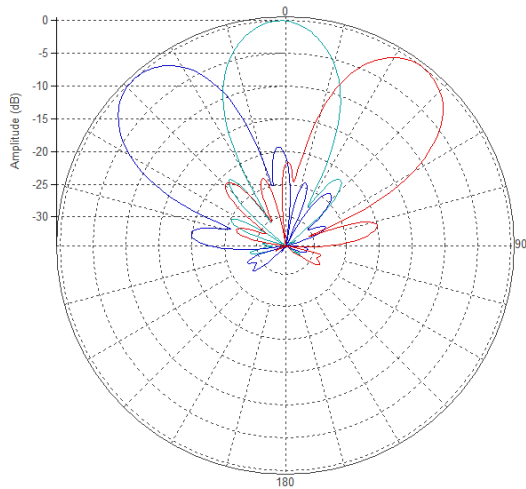
Multi-beam Base-Station Antenna (MBA)

Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for 6 to 9 high-band sector LTE cell site deployment and 3 to 6 low-band sector LTE cell site deployment for best CINR results. Utilizes a patented spherical lens design with 3 isolated high-frequency (1695-2690MHz) cross-polarized beams and 2 isolated low-frequency (698-960MHz) cross-polarized beams. Each high-frequency beam has 8 ports and each low-frequency beam has 4 ports. There are two independent tilt settings per beam (0-30° for HB and 0-40° for LB) tilt for each pair of cross-polarized elements. Standard RET capability.

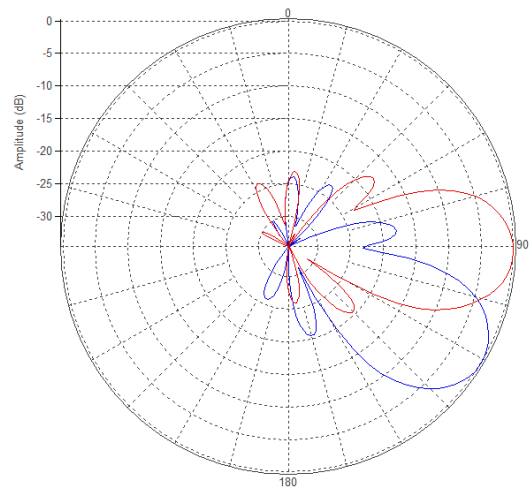


PATTERN RESULTS:

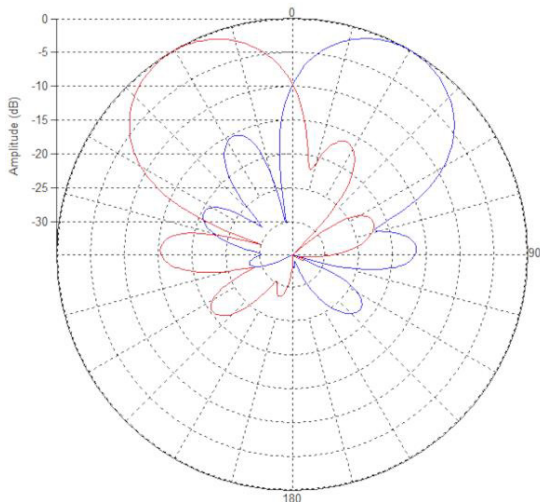
High-Band Horizontal Pattern (1.80GHz)



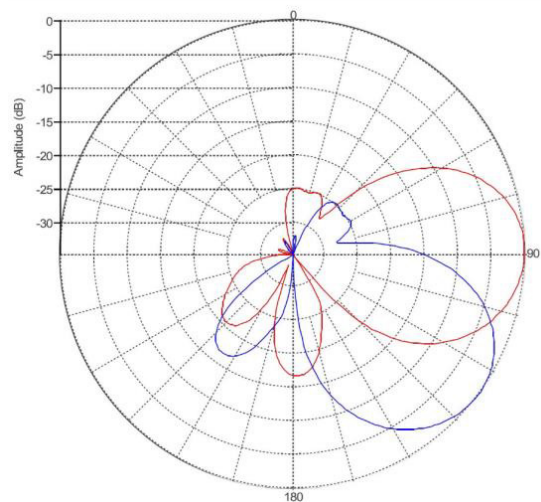
High-Band Vertical pattern 0° tilt and 30° tilt (1.80GHz)



Low-Band Horizontal Pattern (750MHz)



Low-Band Vertical Pattern 0° tilt and 20° tilt (750MHz)



TECHNICAL SPECIFICATIONS PER BEAM

| | | |
|---------------------------------------|--------------------|-------------------|
| Frequency | 1695-2690 MHz | 698-960 MHz |
| Gain | 17.8dBi | 14.2dBi |
| VSWR | <1.5:1 | <1.5:1 |
| Polarization | Dual Slant ±45° | Dual Slant ±45° |
| Horizontal Coverage | 120° | 120° |
| Horizontal Beamwidth (10dB) | 40° | 60° |
| Horizontal Beamwidth (3dB) | 23° | 34° |
| Vertical Beamwidth (10dB) | 40° | 60° |
| Vertical Beamwidth (3dB) | 23° | 34° |
| Beam Cross-over | 10dB typical | 10dB typical |
| Total Number of Beams | 3 | 2 |
| Number of Ports per Beam | 8 | 4 |
| Number of Ports Total | 24 | 8 |
| Tilt Per Cross-Pol | 0° to 30° | 0° to 40° |
| First Sidelobe Level | <-16dB | <-15dB |
| Front to Back Ratio | >28dB | >28dB |
| Isolation Port to Port - Polarization | >28dB | >28dB |
| Isolation Port to Port - Beam | >28dB | >26dB |
| Power Rating | 200W per port | 250W per port |
| Intermodulation | <-153dBc | <-153dBc |
| Impedance | 50 ohm | 50 ohm |
| Connector Quantity and Type | 24 x 4.3-10 female | 8 x 4.3-10 female |

MECHANICAL DATA

| | |
|------------------------|---|
| Dimensions (H x W x D) | 243.8 X 61.2 X 71.8 cm 96 X 24.1 X 28.3 inch |
| Antenna Weight | 79.16 kg 174.5 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 | Frontal: 1049 N / 235.8 lbf Lateral: 1633 N / 367.1 lbf |

CONNECTOR LAYOUT:

