

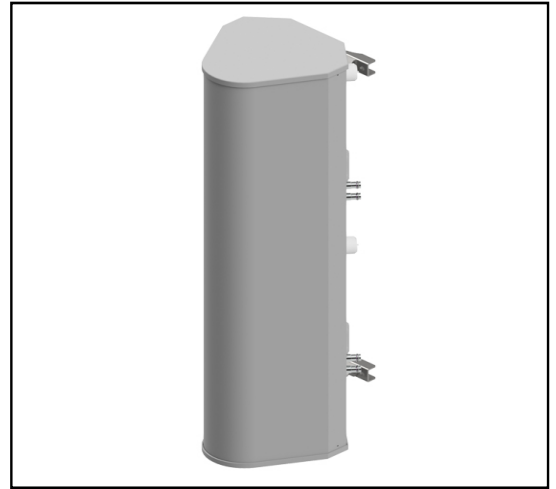


LENS TECHNOLOGY ENABLED

## MS-MBA-3-C4A3

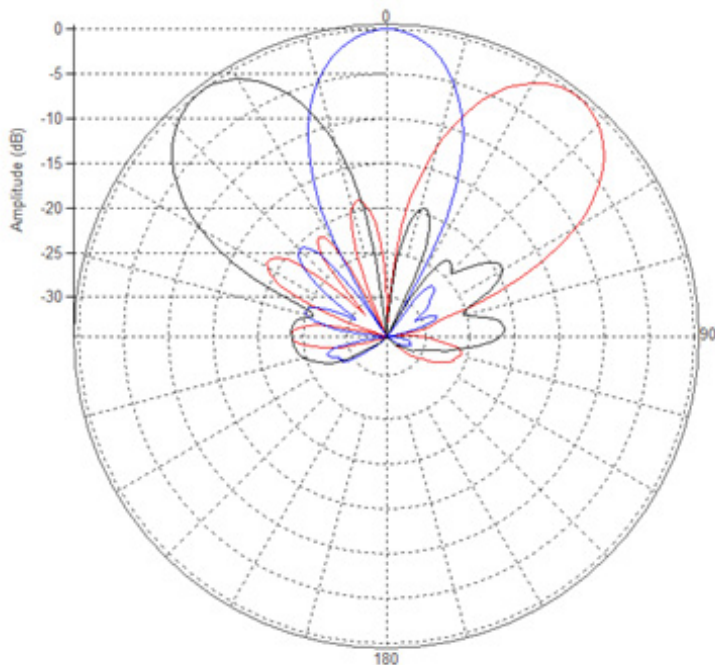
**Lens Technology Enabled™ Multi-Beam Base-Station Antenna perfect for six to nine sector LTE cell site deployments, utilizes a patented spherical lens design with 3 isolated C-Band (3700 - 4200MHz) cross-polarized beams. Each beam has 4 ports, or 4X4 MIMO.**

**Tilt is adjustable from 0° to 15° for each beam.**

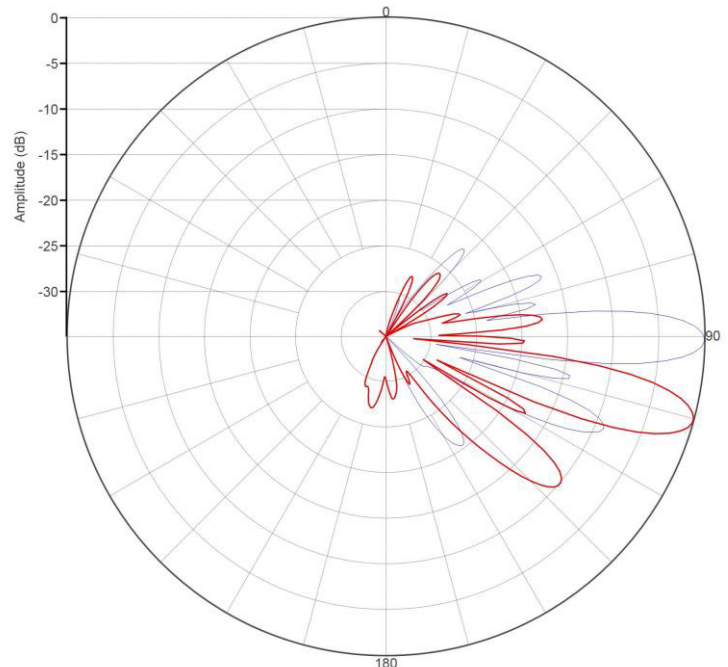


### PATTERN RESULTS:

**C-Band Horizontal Pattern (3.7GHz)**



**C-Band Vertical Pattern at 0° and 15° Tilt (3.7GHz)**



### TECHNICAL SPECIFICATIONS PER BEAM

|                                       |                           |
|---------------------------------------|---------------------------|
| Frequency                             | 3700 – 4200 MHz           |
| Gain                                  | 20dBi                     |
| VSWR                                  | <1.5:1                    |
| Polarization                          | Dual Slant $\pm 45^\circ$ |
| Horizontal Coverage                   | 120°                      |
| Horizontal Beamwidth (3dB)            | 25°                       |
| Horizontal Beamwidth (10dB)           | 45°                       |
| Vertical Beamwidth (3dB)              | 8°                        |
| Beam Cross-over                       | 8 dB typical              |
| Total Number of Beams                 | 3                         |
| Number of Ports per Beam              | 4                         |
| Total Number of Ports                 | 12                        |
| Tilt Per Cross-Pol                    | 0°- 15°                   |
| USLS (upper sidelobe suppression)     | 16dB                      |
| Azimuth Sidelobe Level                | -18dB                     |
| Front to Back Ratio                   | 28dB                      |
| Isolation Port to Port - Polarization | 28dB                      |
| Isolation Port to Port - Beam         | 25dB                      |
| Power Rating                          | 150W per port             |
| Intermodulation                       | <-153dBc                  |
| Impedance                             | 50 ohm                    |
| Connector Quantity and Type           | 12 x 4.3-10 female        |

### MECHANICAL DATA

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Dimensions (H x W x D) | 118.8 x 29.4 x 37 cm<br>46.8 x 11.6 x 14.6 inch                                     |
| Antenna Weight         | 19.46kg/42.9lbs [w/o Bracket]<br>21kg/46.3lbs [w/Bracket]                           |
| Radome Material        | Polycarbonate                                                                       |
| Mounting               | Standard pipe mount<br>Compatible pipe diameter:<br>6.1 – 11.4 cm<br>2.4 – 4.5 inch |

### ENVIRONMENTAL RATINGS

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Humidity             | 95% RH @ +30°C                                                     |
| Temperature          | -40°C to +70°C                                                     |
| Wind Load @150 km/hr | N/lf<br>Frontal : 262 /58.9<br>Lateral : 374 /84.1<br>Rear: 298/67 |

### CONNECTOR LAYOUT:

