

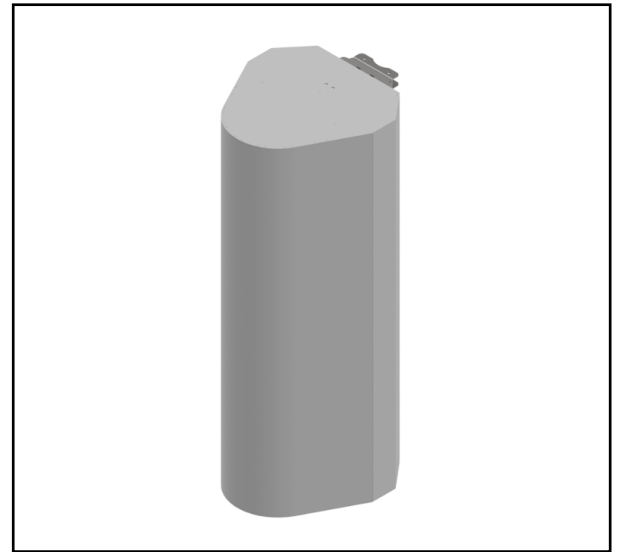


LENS TECHNOLOGY ENABLED

## MS-MBC-4-F4-6

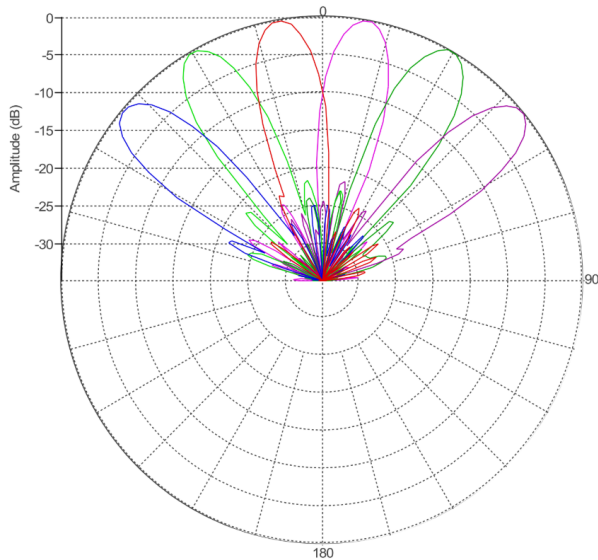
**Lens Technology Enabled™ Multi-Beam Base-Station Antenna** perfect for multi-sector cell site deployments, utilizes a patented cylindrical lens design with 4 isolated F-Band (3300– 4200 MHz) cross-polarized beams. Each Beam has 4 ports to Support 4x4 MIMO.

**RET (Smart Bias Tee & AISG 2.0) with 2°-10°** for each beam.

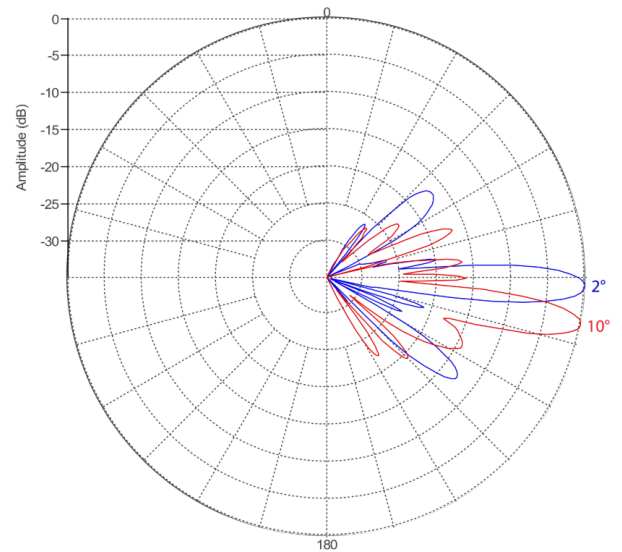


### PATTERN RESULTS:

**Horizontal Pattern (3.7GHz)**



**Vertical Pattern at 2° and 10° (3.7GHz)**



### TECHNICAL SPECIFICATIONS

|                                       |                           |
|---------------------------------------|---------------------------|
| Frequency                             | 3300 – 4200 MHz           |
| Gain                                  | 24.1dBi                   |
| VSWR                                  | <1.5:1                    |
| Polarization                          | Dual Slant $\pm 45^\circ$ |
| Horizontal Coverage                   | 120°                      |
| Horizontal Beamwidth (3dB level)      | 12°                       |
| Vertical Beamwidth (3dB level)        | 6.5°                      |
| Beam Cross-over                       | 8dB typical               |
| Total Number of Beams                 | 4                         |
| Number of Ports per Beam              | 4                         |
| Number of Ports Total                 | 16                        |
| RET (AISG & SBT)                      | 2°-10°                    |
| 1st Upper Side Lobe Suppression       | 15dB                      |
| Azimuth Sidelobe Level                | -18dB                     |
| Front to Back Ratio @ 180°            | 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) | 145.8 x 40.6 x 37.6 cm<br>57.4 x 16 x 14.8 inch                                     |
| Antenna Weight         | 45.9 Kg<br>101.2 lbs                                                                |
| Radom                  | FiberGlass                                                                          |
| 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/lbf<br>Frontal: 536/120.5<br>Lateral: 731/164.3<br>Rear: 619/139.2 |

### CONNECTOR LAYOUT:

