

## 4 BEAMS | 3300 – 4200 MHz | 8T8R

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 8 ports or 8x8 MIMO. RET available from 0° - 15°.



## BASTA SPECIFICATIONS

| FREQUENCY BAND, MHZ                       | 3300-4200                         | 3700-4200 |
|---|-----------------------------------|-----------|
| GAIN (ALL TILTS/PORTS), DBI               | 21.5                              | 22.5      |
| VSWR                                      | 1.5:1                             | 1.5:1     |
| HORIZONTAL BEAM CENTERS, DEG              | -45+/-2; -15+/-2; 15+/-2; 45+/-2  |           |
| HORIZONTAL BEAMWIDTH, DEG                 | 18±1                              | 19±1      |
| BEAM CROSS-OVER, DB                       | 7                                 | 9         |
| HORIZONTAL SIDELOBES, DB                  | -17.5                             | -18       |
| FRONT TO BACK RATIO AT 180°±30°, DB       | 30                                | 32        |
| CPR AT BORESIGHT, DB                      | 22                                | 23        |
| CPR AT 10DB BEAMWIDTH, DB                 | 14                                | 14        |
| REMOTE ELECTRICAL BEAM TILT, DEG          | 0 - 15                            |           |
| VERTICAL BEAMWIDTH, DEG                   | 7±0.7                             | 6±1       |
| USLS, BEAMPEAK TO 20° ABOVE BEAMPEAK, DB  | 17                                | 16        |
| ISOLATION PORT TO PORT - POLARIZATION, DB | 28                                | 30        |
| ISOLATION PORT TO PORT - BEAM, DB         | 26                                | 26        |
| PIM, 3RD ORDER, 2X20W, DBC                | -153                              |           |
| MAX. POWER PER PORT, W                    | 150 (at 40°C ambient temperature) |           |

## ELECTRICAL SPECIFICATIONS (general)

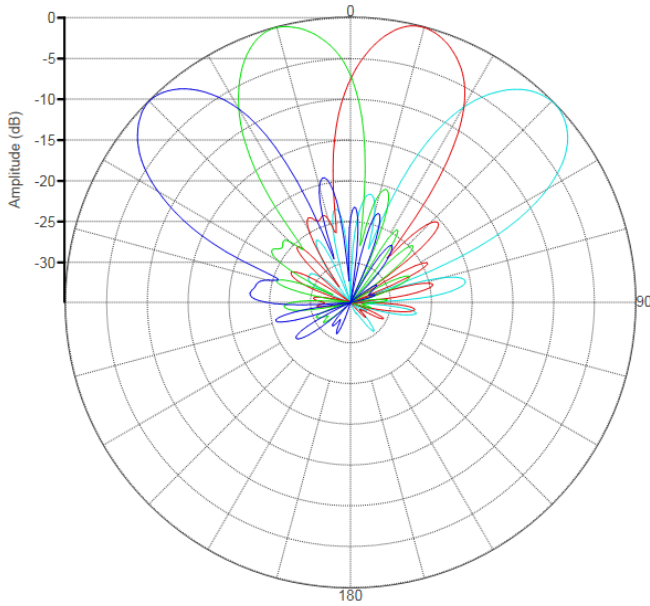
|                             |                    |
|-----------------------------|--------------------|
| IMPEDANCE                   | 50 Ohm             |
| OPERATING FREQUENCY BAND    | 3000-4200MHz       |
| POLARIZATION                | ±450               |
| NUMBER OF BEAMS             | 4                  |
| NUMBER OF PORTS PER BEAM    | 8                  |
| CONNECTOR QUANTITY AND TYPE | 32 x 4.3-10 female |
| TOTAL POWER, MAX            | 2000W at 40°C      |

## TECHNICAL SPECIFICATIONS

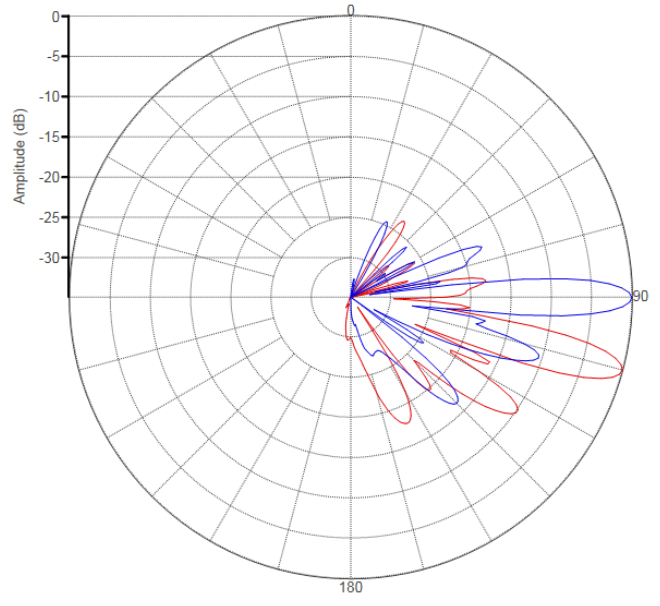
| FREQUENCY                             | 3300 – 4200 MHZ    |
|---------------------------------------|--------------------|
| GAIN                                  | 22dBi              |
| VSWR                                  | <1.5:1             |
| POLARIZATION                          | Dual Slant ±45°    |
| HORIZONTAL COVERAGE                   | 120°               |
| HORIZONTAL BEAMWIDTH ( 10DB LEVEL)    | 34°                |
| HORIZONTAL BEAMWIDTH (3DB LEVEL)      | 19°                |
| VERTICAL BEAMWIDTH (3DB LEVEL)        | 6.5°               |
| BEAM CROSS-OVER                       | 8dB typical        |
| TOTAL NUMBER OF BEAMS                 | 4                  |
| NUMBER OF PORTS PER BEAM              | 8                  |
| NUMBER OF PORTS TOTAL                 | 32                 |
| RET                                   | 0°-15°             |
| 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           | 32 x 4.3-10 female |

# PATTERN RESULTS

**Horizontal Pattern (3.7GHz)**



**Vertical Pattern at 0° and 15° (3.7GHz)**



# MECHANICAL SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>DIMENSIONS (H X W X D)</b> | 153 x 71 x 40 cm<br>60.2 x 28 x 15.7 inch   |
| <b>ANTENNA WEIGHT</b>         | 55kg   121.2 lbs  |
| <b>RADOME MATERIAL</b>        | Fiber Glass   |
| <b>MOUNTING</b>               | Standard pipe mount<br>Compatible pipe diameter:<br>6.1 – 11.4 cm<br>2.4 – 4.5 inch |

# ENVIRONMENTAL RATINGS

|                              |                |
|------------------------------|----------------|
| <b>HUMIDITY</b>              | 95% RH @ +30°C |
| <b>TEMPERATURE</b>           | -40°C to +70°C |
| <b>WIND LOAD @ 150 KM/HR</b> | TBD            |