

30-ports tri-sector antenna, 6x 698-896, 12x 1695-2200 and 12x 3300-4000 MHz, 65° HPBW, 9x RETs, 6x SBTs.

- Small size tri-sector macro cell canister antenna
- Ideal for deploying low band, mid band and CBRS/C-Band in flagpoles and concealment solutions
- Pole mounting kit not included. Separate pole mounting kit TS-MNT-TOP-370 available for pole diameter from 150mm (5.9 inch) to 273 mm (10.7 inch). Please check Optional Mounting Kits section for more details
- 4.3-10 connectors used for low band and mid band ports, 2.2-5 connectors used for high band ports

#### General Specifications

Antenna Type DualPol® tri-sector

**Band** Multiband

Color Light Gray (RAL 7035)

**Grounding Type** RF connector inner conductor and body grounded to reflector and mounting bracket

Performance Note Outdoor usage

**Radome Material** ASA, UV stabilized

**RF Connector Interface** 2.2-5 Female | 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 12
RF Connector Quantity, mid band 12

RF Connector Quantity, low band 6

RF Connector Quantity, total 30

### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 3 female | 3 male

Internal RET High band (3) | Low band (3) | Mid band (3)

Protocol 3GPP/AISG 2.0

**Dimensions** 

**Length** 1446 mm | 56.929 in

**COMMSCOPE®** 

Net Weight, antenna only

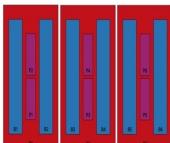
41 kg | 90.389 lb

**Outer Diameter** 

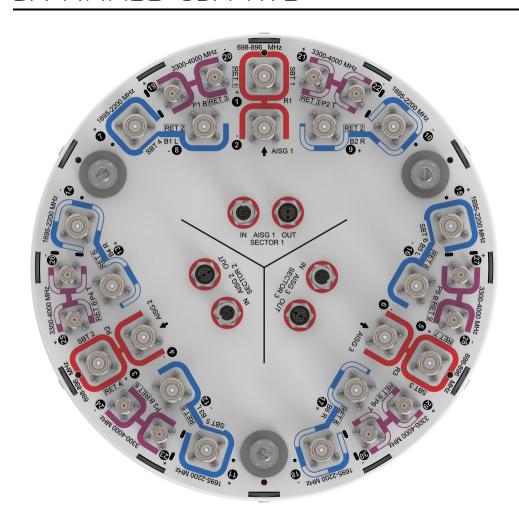
370 mm | 14.567 in

### Array Layout





Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2200 MHz | 3300 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 2,640 W

## **Electrical Specifications**

|                        | R1-R3   | R1-R3   | Y1-Y6     | Y1-Y6     | Y1-Y6     | P1-P6     | P1-P6     | P1-P6     |
|------------------------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency Band, MHz    | 698-806 | 806-896 | 1695-1880 | 1850-1990 | 1920-2200 | 3300-3550 | 3550-3700 | 3700-4000 |
| RF Port                | 1-6     | 1-6     | 7-18      | 7-18      | 7-18      | 19-30     | 19-30     | 19-30     |
| Gain, dBi              | 13.4    | 13.6    | 16.7      | 17.1      | 17.4      | 15.8      | 15.6      | 14.8      |
| Beamwidth, Horizontal, | 75      | 74      | 65        | 62        | 61        | 50        | 48        | 62        |

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| degrees                                      |            |            |            |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| Beamwidth, Vertical, degrees                 | 16.9       | 15         | 7.1        | 6.7        | 6.2        | 7.4        | 7          | 6.7        |
| Beam Tilt, degrees                           | 4-14       | 4-14       | 2-12       | 2-12       | 2-12       | 2-12       | 2-12       | 2-12       |
| USLS (First Lobe), dB                        | 17         | 17         | 15         | 16         | 12         | 16         | 15         | 15         |
| Front-to-Back Ratio at 180°,<br>dB           | 29         | 30         | 30         | 30         | 30         | 30         | 30         | 30         |
| Front-to-Back Total Power at 180° ± 30°, dB  | 23         | 23         | 24         | 26         | 26         | 30         | 30         | 30         |
| Isolation, Cross Polarization,<br>dB         | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         |
| Isolation, Inter-band, dB                    | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         |
| VSWR   Return loss, dB                       | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc                | -153       | -153       | -153       | -153       | -153       | -145       | -145       | -145       |
| Input Power per Port at 50°C, maximum, watts | 250        | 250        | 200        | 200        | 200        | 100        | 100        | 100        |

## Electrical Specifications, BASTA

| Frequency Band, MHz                         | 698-806 | 806-896 | 1695-188 | 0 1850-199 | 0 1920–220 | 0 3300-355 | 0 3550-370 | 0 3700-4000 |
|---|---------|---------|----------|------------|------------|------------|------------|-------------|
| Gain by all Beam Tilts,<br>average, dBi     | 13.1    | 13.3    | 16.3     | 16.8       | 16.9       | 15.4       | 15         | 14.4        |
| Gain by all Beam Tilts<br>Tolerance, dB     | ±0.3    | ±0.4    | ±0.7     | ±0.3       | ±0.5       | ±0.8       | ±0.8       | ±1.2        |
| Beamwidth, Horizontal<br>Tolerance, degrees | ±1      | ±2      | ±3       | ±2         | ±7         | ±9         | ±14        | ±17         |
| Beamwidth, Vertical<br>Tolerance, degrees   | ±1.1    | ±0.9    | ±0.4     | ±0.3       | ±0.6       | ±0.6       | ±0.5       | ±0.5        |
| CPR at Boresight, dB                        | 20      | 19      | 17       | 19         | 21         | 13         | 13         | 15          |
| CPR at Sector, dB                           | 8       | 7       | 2        | 2          | 3          | 4          | 6          | 5           |

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

### Packaging and Weights

 Width, packed
 478 mm | 18.819 in

 Depth, packed
 464 mm | 18.268 in

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 Length, packed
 1784 mm | 70.236 in

 Weight, gross
 47.6 kg | 104.94 lb

### Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

UK-ROHS Compliant/Exempted

\* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

