

#### 4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, 2x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

#### OBSOLETE

This product was discontinued on: November 30, 2023Replaced By:6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

#### General Specifications

| Antenna Type                     | Sector   |
|----------------------------------|--|
| Band                             | Multiband  |
| Grounding Type                   | RF connector inner conductor and body grounded to reflector and mounting bracket                                     |
| Performance Note                 | Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN |
| Radome Material                  | Fiberglass, UV resistant   |
| Reflector Material               | Aluminum   |
| RF Connector Interface           | 4.3-10 Female  |
| RF Connector Location            | Bottom   |
| RF Connector Quantity, high band | 2  |
| RF Connector Quantity, low band  | 2  |
| RF Connector Quantity, total     | 4  |

#### Remote Electrical Tilt (RET) Information

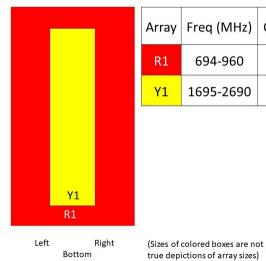
| RET Interface                                 | 8-pin DIN Female   8-pin DIN Male |
|---|-----------------------------------|
| RET Interface, quantity                       | 1 female   1 male                 |
| Input Voltage                                 | 10-30 Vdc                         |
| Internal RET                                  | High band (1)   Low band (1)      |
| Power Consumption, idle state, maximum        | 1 W                               |
| Power Consumption, normal conditions, maximum | 10 W                              |

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| Protocol                         | 3GPP/AISG 2.0 (Single RET) |
|----------------------------------|----------------------------|
| Dimensions                       |                            |
| Width                            | 350 mm   13.78 in          |
| Depth                            | 208 mm   8.189 in          |
| Length                           | 1400 mm   55.118 in        |
| Net Weight, without mounting kit | 17.8 kg   39.242 lb        |

### Array Layout



| Array | Freq (MHz) | Conns | RET<br>(SRET) | AISG RET UID     |
|-------|------------|-------|---------------|------------------|
| R1    | 694-960    | 1-2   | 1             | ANxxxxxxxxxxxxx1 |
| Y1    | 1695-2690  | 3-4   | 2             | ANxxxxxxxxxxxxx2 |

Port Configuration





### **Electrical Specifications**

| Impedance                  | 50 ohm                          |
|----------------------------|---------------------------------|
| Operating Frequency Band   | 1695 – 2690 MHz   694 – 960 MHz |
| Polarization               | ±45°                            |
| Total Input Power, maximum | 800 W @ 50 °C                   |

# **Electrical Specifications**

| Frequency Band, MHz                  | 694-790    | 790-890    | 890-960    | 1695-1920  | 1920-2180  | 2300-2690  |
|--------------------------------------|------------|------------|------------|------------|------------|------------|
| Gain, dBi                            | 14.1       | 14.2       | 14.6       | 16.9       | 17.2       | 18.2       |
| Beamwidth, Horizontal,<br>degrees    | 68         | 66         | 62         | 64         | 66         | 61         |
| Beamwidth, Vertical, degrees         | 15         | 13.9       | 12.9       | 7.4        | 6.6        | 5.7        |
| Beam Tilt, degrees                   | 2-15       | 2-15       | 2-15       | 2-12       | 2-12       | 2-12       |
| USLS (First Lobe), dB                | 13         | 14         | 15         | 22         | 20         | 21         |
| Front-to-Back Ratio at 180°,<br>dB   | 32         | 29         | 29         | 34         | 33         | 37         |
| Isolation, Cross Polarization,<br>dB | 28         | 28         | 28         | 28         | 28         | 28         |
| Isolation, Inter-band, dB            | 28         | 28         | 28         | 28         | 28         | 28         |
| 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 |

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| PIM, 3rd Order, 2 x 20 W, dBc                   | -153 | -153 | -153 | -153 | -153 | -153 |
|---|------|------|------|------|------|------|
| Input Power per Port at 50°C,<br>maximum, watts | 300  | 300  | 300  | 250  | 250  | 200  |

### Electrical Specifications, BASTA

| Frequency Band, MHz                         | 694-790                                 | 790-890                                 | 890-960                                 | 1695-1920                               | 1920-2180                               | 2300-2690                               |
|---|---|---|---|---|---|---|
| Gain by all Beam Tilts,<br>average, dBi     | 13.7                                    | 13.9                                    | 14.3                                    | 16.6                                    | 16.9                                    | 17.8                                    |
| Gain by all Beam Tilts<br>Tolerance, dB     | ±0.6                                    | ±0.5                                    | ±0.7                                    | ±0.5                                    | ±0.5                                    | ±0.5                                    |
| Gain by Beam Tilt, average,<br>dBi          | 2 °   13.7<br>9 °   13.7<br>16 °   13.8 | 2 °   13.9<br>9 °   14.0<br>16 °   14.0 | 2 °   14.2<br>9 °   14.3<br>16 °   14.2 | 2 °   16.1<br>7 °   16.7<br>12 °   16.6 | 2 °   16.4<br>7 °   16.9<br>12 °   17.0 | 2 °   17.3<br>7 °   17.9<br>12 °   17.8 |
| Beamwidth, Horizontal<br>Tolerance, degrees | ±2.6                                    | ±2.6                                    | ±4.0                                    | ±3.5                                    | ±2.2                                    | ±6.9                                    |
| Beamwidth, Vertical<br>Tolerance, degrees   | ±1                                      | ±0.6                                    | ±1                                      | ±0.5                                    | ±0.4                                    | ±0.4                                    |
| USLS, beampeak to 20° above<br>beampeak, dB | 16                                      | 15                                      | 15                                      | 14                                      | 15                                      | 14                                      |
| Front-to-Back Total Power at 180° ± 30°, dB | 26                                      | 24                                      | 23                                      | 27                                      | 27                                      | 27                                      |
| CPR at Boresight, dB                        | 14                                      | 14                                      | 16                                      | 20                                      | 20                                      | 20                                      |
| CPR at Sector, dB                           | 8                                       | 10                                      | 8                                       | 10                                      | 12                                      | 7                                       |

# Mechanical Specifications

| Mechanical Tilt Range            | 0°-20.5°                                  |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 221.0 N @ 150 km/h (49.7 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, lateral | 185.0 N @ 150 km/h (41.6 lbf @ 150 km/h)  |
| Wind Loading @ Velocity, maximum | 469.0 N @ 150 km/h (105.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear    | 234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)  |
| Wind Speed, maximum              | 241 km/h (150 mph)                        |

#### Packaging and Weights

| Width, packed  | 447 mm   17.598 in  |
|----------------|---------------------|
| Depth, packed  | 354 mm   13.937 in  |
| Length, packed | 1544 mm   60.787 in |
| Weight, gross  | 29 kg   63.934 lb   |

### Regulatory Compliance/Certifications

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#### Classification

| CHINA-ROHS    | Above maximum concentration value  |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |
|               |  |

#### Included Products

BSAMNT-3

Agency

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

#### \* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

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# BSAMNT-3



Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

| Product Classification       |                       |
|------------------------------|-----------------------|
| Product Type                 | Downtilt mounting kit |
| General Specifications       |                       |
| Application                  | Outdoor               |
| Color                        | Silver                |
| Dimensions                   |                       |
| Compatible Diameter, maximum | 115 mm   4.528 in     |
| Compatible Diameter, minimum | 60 mm   2.362 in      |
| Weight, net                  | 6.2 kg   13.669 lb    |
| Material Specifications      |                       |
| Material Type                | Galvanized steel      |
|                              |                       |
| Packaging and Weights        |                       |
| Included                     | Brackets   Hardware   |
| Packaging quantity           | 1                     |
| Weight, gross                | 6.4 kg   14.11 lb     |
|                              |                       |

### Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| CE            | Compliant with the relevant CE product directives                              |
| CHINA-ROHS    | Below maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC    | Compliant as per SVHC revision on www.commscope.com/ProductCompliance          |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |

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