

12-port sector antenna, 4x 694-960,4x 1427–2690 and 4x 1695- 2690 MHz, 65° HPBW, 6x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

| Antenna Type | 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 | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 0 |
| RF Connector Quantity, mid band | 8 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 12 |

Remote Electrical Tilt (RET) Information

| RET Hardware | CommRET v2 |
|--|-----------------------------------|
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 2 female 2 male |
| Input Voltage | 10-30 Vdc |
| Internal RET | Low band (2) Mid band (4) |
| Power Consumption, active state, maximum | 8 W |
| Power Consumption, idle state, maximum | 1 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |



Dimensions

| Width | 430 mm 16.929 in |
|--------------------------|---------------------|
| Depth | 197 mm 7.756 in |
| Length | 2100 mm 82.677 in |
| Net Weight, antenna only | 32.4 kg 71.43 lb |

Array Layout

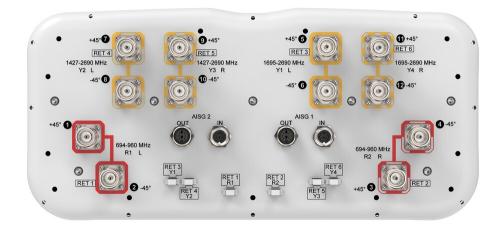
| Y1 | Y2 | Y3 | Y4 |
|----|----|----|----|
| | 1 | R | - |

| | | Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|----|----|-------|------------|-------|---------------|-----------------------|
| | | R1 | 694-960 | 1-2 | 1 | CPxxxxxxxxxxxxxR1 |
| | | R2 | 694-960 | 3-4 | 2 | CPxxxxxxxxxxxxxR2 |
| | | Y1 | 1695-2690 | 5-6 | 3 | CPxxxxxxxxxxxxXXXY1 |
| | | Y2 | 1427-2690 | 7-8 | 4 | CPxxxxxxxxxxxxXXXXY2 |
| Y3 | Υ4 | Y3 | 1427-2690 | 9-10 | 5 | CPxxxxxxxxxxxxXXXXXY3 |
| R | | Y4 | 1695-2690 | 11-12 | 6 | CPxxxxxxxxxxxXXXY4 |

Left Right Bottom

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



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Electrical Specifications

| Impedance | 50 ohm |
|----------------------------|---|
| Operating Frequency Band | 1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 900 W @ 50 °C |
| BASTA Version, electrical | BASTA v12 |

Electrical Specifications

| | R1,R2 | R1,R2 | R1,R2 | Y2/Y3 | Y2/Y3 | Y2/Y3 | Y2/Y3 | Y2/Y3 |
|---|------------|------------|------------|------------|------------|------------|------------|-------------|
| Frequency Band, MHz | 698-806 | 790-894 | 890-960 | 1427-151 | 8 1695–199 | 5 1920–230 | 0 2300–250 | 0 2490-2690 |
| RF Port | 1-4 | 1-4 | 1-4 | 7-10 | 7-10 | 7-10 | 7-10 | 7-10 |
| Gain at Mid Tilt, dBi | 14.4 | 15.1 | 15.3 | 15.4 | 16.7 | 17.5 | 17.6 | 18 |
| Beamwidth, Horizontal, degrees | 66 | 57 | 54 | 72 | 66 | 61 | 61 | 57 |
| Beamwidth, Vertical, degrees | 10.4 | 9.4 | 8.5 | 6.8 | 5.7 | 5.2 | 4.6 | 4.4 |
| Beam Tilt, degrees | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 18 | 17 | 16 | 17 | 16 | 17 | 19 | 17 |
| Front-to-Back Ratio at 180°, dB | 31 | 31 | 34 | 31 | 35 | 33 | 33 | 35 |
| Front-to-Back Total Power at 180° ± 30°, dB | 21 | 22 | 21 | 21 | 28 | 29 | 27 | 28 |
| CPR at Boresight, dB | 26 | 25 | 22 | 21 | 18 | 18 | 22 | 17 |
| CPR at Sector, dB | 10 | 9 | 6 | 7 | 7 | 5 | 3 | 2 |
| Isolation, Cross Polarization, dB | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 26 |
| Isolation, Inter-band, dB | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 26 |
| 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 | -153 | -153 | -153 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 250 | 250 | 250 | 200 | 200 |

Electrical Specifications

| | Y1/Y4 | Y1/Y4 | Y1/Y4 | Y1/Y4 |
|-----------------------|-----------|-------------|-----------|-----------|
| Frequency Band, MHz | 1695-1995 | 5 1920-2300 | 2300-2500 | 2490-2690 |
| RF Port | 5,6,11,12 | 5,6,11,12 | 5,6,11,12 | 5,6,11,12 |
| Gain at Mid Tilt, dBi | 17 | 17.8 | 18.4 | 18.3 |

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| Beamwidth, Horizontal, degrees | 69 | 66 | 60 | 61 |
|---|------------|------------|------------|------------|
| Beamwidth, Vertical, degrees | 5.7 | 5.2 | 4.6 | 4.4 |
| Beam Tilt, degrees | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 17 | 17 | 20 | 21 |
| Front-to-Back Ratio at 180°, dB | 34 | 29 | 34 | 36 |
| Front-to-Back Total Power at 180° ± 30°, dB | 26 | 26 | 25 | 26 |
| CPR at Boresight, dB | 21 | 20 | 20 | 19 |
| CPR at Sector, dB | 10 | 8 | 9 | 7 |
| Isolation, Cross Polarization, dB | 27 | 27 | 27 | 27 |
| Isolation, Inter-band, dB | 26 | 26 | 26 | 26 |
| VSWR Return loss, dB | 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 |
| Input Power per Port at 50°C, maximum, watts | 250 | 250 | 200 | 200 |

Mechanical Specifications

| Wind Loading @ Velocity, frontal | 494.0 N @ 150 km/h (111.1 lbf @ 150 km/h) |
|----------------------------------|---|
| Wind Loading @ Velocity, lateral | 266.0 N @ 150 km/h (59.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 780.0 N @ 150 km/h (175.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 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 | 530 mm 20.866 in |
|----------------|---------------------|
| Depth, packed | 349 mm 13.74 in |
| Length, packed | 2272 mm 89.449 in |
| Weight, gross | 44.6 kg 98.326 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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 |

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ROHS UK-ROHS Compliant

Compliant



Included Products

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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

