

24-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2180, 4x 2490-2690 MHz, 65° HPBW, and 8x 3300-3800 MHz, 90° HPBW, 8x RET

- Antenna includes 2x Single Column X-Pol Arrays for 694-960MHz and 2x Single Column X-Pol Arrays for 1427-2690MHz, suitable for 4x MIMO applications
- Includes 2x Single Column X-Pol Diplexed Arrays providing 4-Ports x 1695-2180MHz and 4 Ports x 2490-2690MHz, suitable for 4x MIMO applications
- Retractable tilt indicator rods
- Includes eight Internal RET's. All 2490-2690MHz (Y1&Y4) ports share common RET
- M-LOC cluster connector for 3.3-3.8GHz, equipped with calibration port
- Antenna shape optimized for wind load reduction

General Specifications

| Antenna Type | Sector and beamforming |
|----------------------------------|--|
| Band | Multiband |
| Calibration Connector Interface | M-LOC |
| Calibration Connector Quantity | 1 |
| 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 M-LOC |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 8 |
| RF Connector Quantity, mid band | 12 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 24 |

Remote Electrical Tilt (RET) Information

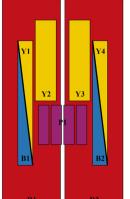
| RET Hardware | CommRET v2 |
|-------------------------|-----------------------------------|
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 2 female 2 male |



| Input Voltage | 10-30 Vdc |
|--|---|
| Internal RET | High band (1) Low band (2) Mid band (5) |
| 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 | 41.2 kg 90.83 lb |

TDD Column Spacing

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|---------------|----------|---|
| R1 | 694-960 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxxR1 |
| R2 | 694-960 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxxxxR2 |
| B1 | 1695-2180 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxxxB1 |
| B2 | 1695-2180 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxxxxxB2 |
| ¥1 | 2490-2690 | 9 - 10 | 5 | AISG1 | CPxxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXX |
| ¥4 | 2490-2690 | 15 - 16 | 5 | AISGT | |
| Y2 | 1427-2690 | 11 - 12 | 6 | AISG1 | CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX |
| Y3 | 1427-2690 | 13 - 14 | 7 | AISG1 | CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX |
| P1 | 3300-3800 | 17 - 24 | 8 | AISG1 | CPxxxxxxxxxxxxxxxxXX |

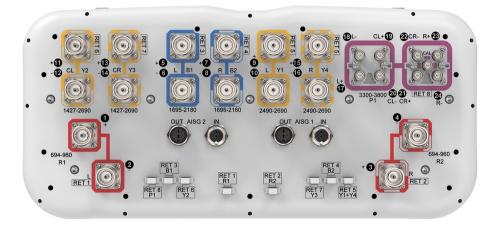
42 mm | 1.654 in

(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 – 2180 MHz 2490 – 2690 MHz 3300 – 3800 MHz 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 900 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 694–790 | 790-890 | 890-960 | 1427-151 | 81695-220 | 02300-269 | 01695-218 | 02490-269 | 03300-3800 |
|--|---------|---------|---------|----------|-----------|-----------|-----------|-----------|------------|
| Gain, dBi | 14.1 | 15 | 15 | 14.1 | 15.9 | 16.6 | 17.1 | 17.7 | 16 |
| Beamwidth, Horizontal, degrees | 70 | 60 | 59 | 69 | 63 | 61 | 69 | 64 | 82 |
| Beamwidth, Vertical, degrees | 10.6 | 9.5 | 8.7 | 9.9 | 7.6 | 6.2 | 5.2 | 4.2 | 6.1 |
| Beam Tilt, degrees | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 20 | 19 | 18 | 13 | 18 | 20 | 19 | 21 | 16 |
| Front-to-Back Ratio at 180°, dB | 31 | 31 | 30 | 34 | 34 | 31 | 32 | 32 | 29 |
| Coupling level, Amp, Antenna port to Cal port, dB | | | | | | | | | 26 |
| Coupling level, max Amp Δ, Antenna port to Cal port, dB | | | | | | | | | ±2 |



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| Coupler, max Amp ∆, Antenna port to Cal port, dB | | | | | | | | | 0.9 |
|---|----------|------------|------------|----------|------------|----------|------------|------------|------------|
| Coupler, max Phase Δ, Antenna port to Cal port, degrees | | | | | | | | | 7 |
| Isolation, Cross Polarization, dB | 27 | 27 | 27 | 26 | 26 | 26 | 27 | 27 | 25 |
| Isolation, Inter-band, dB | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 27 | 25 |
| Isolation, Co-polarization, dB | | | | | | | | | 19 |
| 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 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 | -153 | -153 | -140 |
| Input Power per Port at 50° C, maximum, watts | 250 | 250 | 250 | 200 | 200 | 150 | 200 | 150 | 75 |

Electrical Specifications, Broadcast 65°

| Frequency Band, MHz | 3300-3800 |
|--|-----------|
| Gain, dBi | 16.5 |
| Beamwidth, Horizontal, degrees | 57 |
| Beamwidth, Vertical, degrees | 6.1 |
| Front-to-Back Total Power at 180° ± 30°, dB | 24 |
| USLS (First Lobe), dB | 17 |

Electrical Specifications, Service Beam

| Frequency Band, MHz | 3300-3800 |
|--|-----------|
| Steered 0° Gain, dBi | 20.8 |
| Steered 0° Beamwidth, Horizontal, degrees | 23 |
| Steered 0° Front-to-Back Total Power at 180° ± 30°, dB | 30 |
| Steered 0° Horizontal Sidelobe, dB | 15 |
| Steered 30° Gain, dBi | 19.6 |
| Steered 30° Beamwidth, Horizontal, degrees | 28 |
| Steered 30° Front-to-Back | 28 |

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Total Power at 180° ± 30°, dB

Electrical Specifications, Soft Split

| Frequency Band, MHz | 3300-3800 |
|--|-----------|
| Gain, dBi | 19.7 |
| Beamwidth, Horizontal, degrees | 31 |
| Front-to-Back Total Power at 180° ± 30°, dB | 28 |
| Horizontal Sidelobe, dB | 16 |

Mechanical Specifications

| Wind Loading @ Velocity, frontal | 495.0 N @ 150 km/h (111.3 lbf @ 150 km/h) |
|----------------------------------|---|
| Wind Loading @ Velocity, lateral | 253.0 N @ 150 km/h (56.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 745.0 N @ 150 km/h (167.5 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 316.0 N @ 150 km/h (71.0 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 | 53.5 kg 117.947 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.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant/Exempted |

Included Products

BSAMNT-3

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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.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |







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