

8-port Planar Array Antenna, 3300–3800 MHz, 90° HPBW, 1x RET, with MQ4/MQ5 connectors

- Planar array antenna 4 columns
- Single internal RET control for all four antenna arrays
- Designed for beamforming, includes calibration port
- Optimized for software defined split six sector applications
- Fits in the ANDREW AEKT solution
- Includes MQ4/MQ5 type cluster connector(s)

General Specifications

| Antenna Type | Sector |
|----------------------------------|--|
| Band | Single band |
| Calibration Connector Interface | MQ5 |
| Calibration Connector Quantity | 2 |
| 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 | PVC |
| Radiator Material | Low loss circuit board |
| RF Connector Interface | MQ4 MQ5 |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 8 |
| RF Connector Quantity, mid band | 0 |
| RF Connector Quantity, low band | 0 |
| RF Connector Quantity, total | 8 |

Remote Electrical Tilt (RET) Information

| RET Hardware | CommRET v1 |
|--|-----------------------------------|
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Internal RET | High band (1) |
| Power Consumption, idle state, maximum | 1 W |

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| Power Consumption, normal conditions, maximum | 8 W |
|---|----------------------------|
| Protocol | 3GPP/AISG 2.0 (Single RET) |
| Dimensions | |
| Width | 307 mm 12.087 in |
| Depth | 118 mm 4.646 in |
| Length | 850 mm 33.465 in |
| Net Weight, without mounting kit | 8.8 kg 19.401 lb |
| TDD Column Spacing | 42 mm 1.654 in |
| | |

Array Layout



| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|-------|------------|-------|---------------|--------------------|
| P1 | 3300-3800 | 1-8 | 1 | CPxxxxxxxxxxxxxxP1 |

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

Electrical Specifications

| Impedance | 50 ohm |
|----------------------------|-----------------|
| Operating Frequency Band | 3300 - 3800 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 400 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 3300-3600 | 3600-3800 |
|--------------------------------|-----------|-----------|
| Gain, dBi | 15.5 | 16 |
| Beamwidth, Horizontal, degrees | 96 | 86 |

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| Beamwidth, Vertical, degrees | 6.7 | 6.3 | |
|---|------------|------------|--|
| Beam Tilt, degrees | 2-12 | 2-12 | |
| USLS (First Lobe), dB | 20 | 19 | |
| Front-to-Back Ratio at 180°, dB | 29 | 29 | |
| Coupling level, Amp, Antenna port to Cal port, dB | 26 | 26 | |
| Coupling level, max Amp Δ , Antenna port to Cal port, dB | ±2 | ±2 | |
| Coupler, max Amp Δ , Antenna port to Cal port, dB | 0.9 | 0.9 | |
| Coupler, max Phase Δ , Antenna port to Cal port, degrees | 7 | 7 | |
| Isolation, Cross Polarization, dB | 25 | 25 | |
| Isolation, Inter-band, dB | 19 | 19 | |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | |
| PIM, 3rd Order, 2 x 20 W, dBc | -130 | -130 | |
| Input Power per Port at 50°C, maximum, watts | 75 | 75 | |

Electrical Specifications, Broadcast 65°

| Frequency Band, MHz | 3300-3600 | 3600-3800 |
|---|-----------|-----------|
| Gain, dBi | 16.4 | 16.4 |
| Beamwidth, Horizontal, degrees | 66 | 65 |
| Beamwidth, Horizontal Tolerance, degrees | ±4.0 | ±4.0 |
| Beamwidth, Vertical, degrees | 6.7 | 6.4 |
| Front-to-Back Total Power at 180° ± 30°, dB | 24 | 23 |
| USLS (First Lobe), dB | 20 | 19 |

Electrical Specifications, Service Beam

| Frequency Band, MHz | 3300-3600 | 3600-3800 |
|--|-----------|-----------|
| Steered 0° Gain, dBi | 20.7 | 21.1 |
| Steered 0° Beamwidth, Horizontal, degrees | 25 | 24 |
| Steered 0° Front-to-Back Total Power at 180° ± 30°, dB | 30 | 30 |
| Steered 0° Horizontal Sidelobe, dB | 12 | 12 |
| Steered 30° Gain, dBi | 19.9 | 20.1 |
| Steered 30° Beamwidth, Horizontal, degrees | 28 | 26 |

Electrical Specifications, Soft Split

| Frequency Band, MHz | 3300-3600 | 3600-3800 |
|--------------------------------|-----------|-----------|
| Gain, dBi | 19.8 | 20.2 |
| Beamwidth, Horizontal, degrees | 31 | 29 |

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| CPR at Beampeak, dB | 19 | 18 |
|---|---|-----------------|
| Front-to-Back Total Power at 180° ± 30°, dB | 29 | 30 |
| Horizontal Sidelobe, dB | 18 | 18 |
| Mechanical Specifications | | |
| Effective Projective Area (EPA), frontal | 0.27 m ² 2.906 ft ² | |
| Effective Projective Area (EPA), lateral | 0.05 m² 0.538 ft² | |
| Mechanical Tilt Range | 0°-25° | |
| Wind Loading @ Velocity, frontal | 284.0 N @ 150 km/h (63.8 | lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 56.0 N @ 150 km/h (12.6 l | bf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 286.0 N @ 150 km/h (64.3 | lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 342.0 N @ 150 km/h (76.9 | lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) | |

Packaging and Weights

| Width, packed | 413 mm 16.26 in |
|----------------|---------------------|
| Depth, packed | 257 mm 10.118 in |
| Length, packed | 1035 mm 40.748 in |
| Weight, gross | 19.7 kg 43.431 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|-----------------------------------|
| CHINA-ROHS | Above maximum concentration value |
| ROHS | Compliant/Exempted |
| UK-ROHS | Compliant/Exempted |

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

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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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