

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

| Antenna Type | Sector |
|----------------------------------|--|
| Band | Multiband |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF connector 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 |
| Radiator Material | Aluminum Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, total | 6 |

Remote Electrical Tilt (RET) Information

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Protocol

Dimensions

| Width | 301 mm 11.85 in |
|----------------------------------|---------------------|
| Depth | 180 mm 7.087 in |
| Length | 1413 mm 55.63 in |
| Net Weight, without mounting kit | 15.9 kg 35.053 lb |

Array Layout

<u>NHH</u>

| 4 | | Тор | Array RI |
|---|------|-------|-------------|
| | | _ | YI Y2 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Y1 | Y2 | |
| | | R1 | |
| | Left | Right | |
| | Во | ttom | |

View from the front of the antenna (Sizes of colored boxes are not true depictions of array sizes)

Logo Image

3GPP/AISG 2.0 (Single RET)

AISG RET UID

ANxxxxxxxxxxxxxxxx ANxxxxxxxxxxxxx2

R1 Y1 Y2

Conns

Freq (MHz)

RET (SRET)

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SVScore 7.3

〒8.0 (☞) 7.0 ₽ 7.0 4 7.0

Electrical Specifications

| Impedance | 50 ohm |
|----------------------------|---------------------------------|
| Operating Frequency Band | 1695 – 2360 MHz 698 – 896 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 900 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 698-806 | 806-896 | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2360 |
|---|------------|------------|------------|------------|------------|-----------|
| Gain, dBi | 13.4 | 13.5 | 16.4 | 16.5 | 17.1 | 17.5 |
| Beamwidth, Horizontal, degrees | 66.2 | 61 | 69 | 64 | 61 | 61 |
| Beamwidth, Vertical, degrees | 17.8 | 16.2 | 7.1 | 6.5 | 6.1 | 5.5 |
| Beam Tilt, degrees | 0-18 | 0-18 | 0-10 | 0-10 | 0-10 | 0-10 |
| USLS (First Lobe), dB | 18 | 16 | 18 | 17 | 16 | 15 |
| Front-to-Back Ratio at 180°, dB | 29 | 26 | 33 | 32 | 30 | 32 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 30 | 30 | 30 |
| 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 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 250 | 250 | 250 | 200 |
| | | ΓA | | | | |

Electrical Specifications, BASTA

| Frequency Band, MHz | 698-806 | 806-896 | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2360 |
|---------------------|---------|---------|-----------|-----------|-----------|-----------|
| • • | | | | | | |

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| Gain by all Beam Tilts, average, dBi | 13.1 | 13.2 | 16.1 | 16.3 | 16.6 | 17.1 | |
|---|---|---|---|---|---|---|--|
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.5 | ±0.4 | ±0.4 | ±0.6 | ±0.5 | |
| Gain by Beam Tilt, average, dBi | 0 ° 13.3 9 ° 13.2 18 ° 13.8 | 0 ° 13.4 9 ° 13.4 18 ° 12.7 | 0 ° 16.0 5 ° 16.1 10 ° 16.0 | 0 ° 16.1 5 ° 16.3 10 ° 16.3 | 0 ° 16.4 5 ° 16.7 10 ° 16.4 | 0 ° 17.0 5 ° 17.2 10 ° 16.7 | |
| Beamwidth, Horizontal Tolerance, degrees | ±2.8 | ±3.6 | ±3.9 | ±3.5 | ±6.6 | ±4.6 | |
| Beamwidth, Vertical Tolerance, degrees | ±1.5 | ±1.3 | ±0.3 | ±0.4 | ±0.5 | ±0.3 | |
| USLS, beampeak to 20° above beampeak, dB | 15 | 16 | 12 | 13 | 13 | 14 | |
| Front-to-Back Total Power at 180° ± 30°, dB | 24 | 23 | 27 | 26 | 23 | 26 | |
| CPR at Boresight, dB | 18 | 19 | 20 | 22 | 21 | 22 | |
| CPR at Sector, dB | 10 | 5 | 12 | 9 | 5 | 2 | |
| Mechanical Specifications | | | | | | | |
| Effective Projective Area (EPA), frontal | | | 0.19 m ² 2.045 ft ² | | | | |
| Effective Projective Area (EPA), | lateral | | 0.16 m² 1.722 ft² | | | | |
| Mechanical Tilt Range | | | 0°-18° | | | | |
| Wind Loading @ Velocity, frontal | | | 206.0 N @ 150 km/h (46.3 lbf @ 150 km/h) | | | | |
| Wind Loading @ Velocity, lateral | | | 169.0 N @ 150 km/h (38.0 lbf @ 150 km/h) | | | | |
| Wind Loading @ Velocity, maximum | | | 396.0 N @ 150 km/h (89.0 lbf @ 150 km/h) | | | | |
| Wind Loading @ Velocity, rear | | | 208.0 N @ 150 km/h (46.8 lbf @ 150 km/h) | | | | |
| Wind Speed, maximum | | | 241 km/h (150 n | nph) | | | |
| | | | | | | | |

Packaging and Weights

| Width, packed | 380 mm 14.961 in |
|----------------|---------------------|
| Depth, packed | 295 mm 11.614 in |
| Length, packed | 1537 mm 60.512 in |
| Weight, gross | 26.5 kg 58.422 lb |

Regulatory Compliance/Certifications

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

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ROHS

UK-ROHS

Compliant/Exempted



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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