

8-port sector antenna, 2x 698–803, 2x 824-894 and 4x 1695–2360 MHz, 65° HPBW, 3x RETs, low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5).

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band

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

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

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 Bias Tee Port 1 | Port 5

Internal RET High band (1) | Low band (2)

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Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

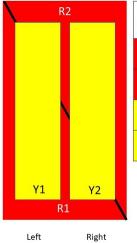
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 1400 mm | 55.118 in

Net Weight, without mounting kit 24.5 kg | 54.013 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	CPxxxxxxxxxxxxxR1
R2	824-894	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2360	5-6	•	CD
Y2	1695-2360	7-8	3	CPxxxxxxxxxxxxxY1

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 803 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 800 W @ 50 °C

Electrical Specifications

'						
Frequency Band, MHz	698-803	824-894	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	13.6	13.9	17	17.3	17.8	18.1
Beamwidth, Horizontal, degrees	68	64	62	62	63	65
Beamwidth, Vertical, degrees	17	14.9	7.4	6.9	6.5	5.8
Beam Tilt, degrees	2-18	2-18	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	16	18	18	19	20	18
Front-to-Back Ratio at 180°, dB	31	32	30	34	36	36
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

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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,	250	250	300	300	300	250
maximum, watts						

Electrical Specifications, BASTA

Frequency Band, MHz	698-803	824-894	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	13.2	13.6	16.6	17	17.4	17.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.5	±0.7	±0.6
Gain by Beam Tilt, average, dBi	2° 12.8 10° 13.3 18° 13.1	2° 13.3 10° 13.8 18° 13.5	0 ° 16.3 5 ° 16.7 10 ° 16.7	0° 16.6 5° 17.0 10° 17.1	0° 16.9 5° 17.4 10° 17.6	0° 17.1 5° 17.8 10° 17.9
Beamwidth, Horizontal Tolerance, degrees	±2	±2.1	±3.5	±2.7	±3.8	±3.6
Beamwidth, Vertical Tolerance, degrees	±1.3	±0.8	±0.4	±0.3	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	16	18	16	17	17	16
Front-to-Back Total Power at 180° ± 30°, dB	25	23	24	29	26	30
CPR at Boresight, dB	16	18	19	21	21	25
CPR at Sector, dB	10	9	11	12	10	9

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.21 m ² 2.26 ft ²
Effective Projective Area (EPA), lateral	0.17 m ² 1.83 ft ²

Mechanical Tilt Range 0°-20°

 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	456 mm 17.953 in
Depth, packed	357 mm 14.055 in
Length, packed	1544 mm 60.787 in

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Weight, gross 37 kg | 81.571 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

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

