

10-port sector antenna, 2x 694–960, 4x 1695–2180 and 4x 2490-2690 MHz, 65° HPBW, 4x RET. High bands (H1/H2) arrays are diplexed at the element level.

 Independent tilt for 694-960 and 1695-2180 MHz arrays. Shared tilt for the two 2490-2690 MHz arrays

General Specifications

Antenna Type Sector

Band Multiband

Grounding Type RF connector inner conductor and 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 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 2
RF Connector Quantity, total 10

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (3) | Low band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0



Dimensions

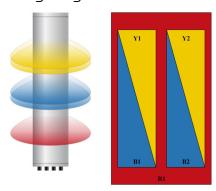
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 1400 mm | 55.118 in

Net Weight, without mounting kit 20.3 kg | 44.754 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID	
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxR1	
B1	1695-2180	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxB1	
B2	1695-2180	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxB2	
Y1	2490-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxY1	
Y2	2490-2690	9 - 10	65°				

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

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Operating Frequency Band 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-862	880-960	1695-1920	1920-2180	2490-2690
Gain, dBi	14.2	14.7	17.1	17.4	17.6
Beamwidth, Horizontal, degrees	68	63	61	61	65
Beamwidth, Vertical, degrees	16.2	14.1	7.4	6.8	5.6
Beam Tilt, degrees	3-18	3-18	3-13	3-13	3-13
USLS (First Lobe), dB	18	19	19	21	14
Front-to-Back Ratio at 180°, dB	32	32	31	36	38
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-862	880-960	1695-1920	1920-2180	2490-2690
Gain by all Beam Tilts, average, dBi	13.9	14.4	16.8	17.1	16.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.5	±0.3	±0.9
Gain by Beam Tilt, average, dBi	3° 14.0 10° 14.0 18° 13.7	3° 14.7 10° 14.5 18° 14.0	3° 16.8 8° 16.9 13° 16.5	3° 17.1 8° 17.3 13° 16.9	3° 16.8 8° 17.1 13° 16.4
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.5	±3.8	±2.2	±2.2
Beamwidth, Vertical Tolerance, degrees	±1.4	±0.9	±0.4	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	18	19	12	14	13
Front-to-Back Total Power at 180° ± 30°, dB	25	23	27	26	28

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CPR at Boresight, dB	20	21	20	20	19
CPR at Sector, dB	10	9	10	9	9

Mechanical Specifications

 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
 448 mm | 17.638 in

 Depth, packed
 355 mm | 13.976 in

 Length, packed
 1544 mm | 60.787 in

 Weight, gross
 33.9 kg | 74.737 lb

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliant



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

