

20-port sector/multibeam antenna 4x 694–960 MHz , 8x 1695-2690 MHz 65° HPBW and 8x 1710–2690 MHz 2x 2-Beam 33°HPBW, 10x RFT. Band cascaded SRET

General Specifications

Antenna Type Multibeam

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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 EN1991-1-4 standard

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

0

RF Connector Quantity, low band

4

RF Connector Quantity, total 20

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 (8) | Low band (2)

Power Consumption, active state, maximum $8~\mathrm{W}$ Power Consumption, idle state, maximum $1~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

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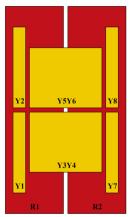
Length

2688 mm | 105.827 in

Net Weight, antenna only

58.6 kg | 129.191 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	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	33°	5	AISG1	CPxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	33°	6	AISG1	CPxxxxxxxxxxxxx4
Y5	1710-2690	13 - 14	33°	7	AISG1	CPxxxxxxxxxxxxxY5
Y6	1710-2690	15 - 16	33°	8	AISG1	CPxxxxxxxxxxxxY6
Y7	1695-2690	17 - 18	65°	9	AISG1	CPxxxxxxxxxxxxxY7
Y8	1695-2690	19 - 20	65°	10	AISG1	CPxxxxxxxxxxxxXY8

(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 – 2690 MHz | 1710 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,300 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	880-960	1695-192	01920-218	02300-269	01710-192	201920-218	02300-2690
Gain, dBi	15.6	15.9	15.9	15.7	16.9	17.7	17.5	19	19.4
Beam Centers, Horizontal, degrees							±27	±27	±27
Beamwidth, Horizontal, degrees	71	65	63	76	67	59	37	34	28
Beamwidth, Vertical, degrees	9.3	8.3	7.6	7.1	6.4	5.4	7.2	6.5	5.5
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	17	17	16	16	16	19	16	18	20
Front-to-Back Ratio at 180°, dB	30	28	30	32	30	33	39	38	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25
Isolation, Beam to Beam, dB							17	17	17
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	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50° C, maximum, watts	250	250	250	200	200	150	200	200	150

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 650.0 N @ 150 km/h (146.1 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in



 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 80.4 kg | 177.251 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.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Included Products

BSAMNT-4 – 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.

BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

