

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 RET. Band cascaded SRET

General Specifications

Length

Antenna Type	Multibeam
Band	Multiband
Color	Light Gray (RAL 7035)
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 EN1991-1-4 standard
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	16
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Remote Electrical Tilt (RET) Information

CommRET v2
8-pin DIN Female 8-pin DIN Male
2 female 2 male
10-30 Vdc
High band (8) Low band (2)
8 W
1 W
3GPP/AISG 2.0 (Single RET)
498 mm 19.606 in
197 mm 7.756 in

2688 mm | 105.827 in

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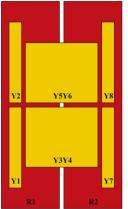
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Net Weight, antenna only

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	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxR2
¥1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxXXXXXXY1
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxX2
¥3	1710-2690	9 - 10	33°	5	AISG1	CPxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXXX
¥4	1710-2690	11 - 12	33°	6	AISG1	CPxxxxxxxxxxxxxXY4
¥5	1710-2690	13 - 14	33°	7	AISG1	CPxxxxxxxxxxxxxXXXXXY5
Y6	1710-2690	15 - 16	33°	8	AISG1	CPxxxxxxxxxxxxxXXXXXY6
¥7	1695-2690	17 - 18	65°	9	AISG1	CPxxxxxxxxxxxxxXXXXXY7
Y8	1695-2690	19 - 20	65°	10	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX

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

Port Configuration



Electrical Specifications

Impedance

Operating Frequency Band

1695 – 2690 MHz | 1710 – 2690 MHz | 694 – 960 MHz

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50 ohm



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	01920-218	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

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1695-192	01920-218	02300-269	01710-192	01920-218	02300-2690
Gain by all Beam Tilts, average, dBi	15.1	15.6	15.7	15.2	16.3	17.3	17	18.4	18.8
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.4	±0.8	±0.7	±0.4	±1.1	±0.9	±1
Beamwidth, Horizontal Tolerance, degrees	±7.9	±9.2	±5.4	±6.7	±7	±4.5	±3.4	±2.3	±3.6
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.5	±0.3	±0.5	±0.4	±0.4	±0.5	±0.4	±0.5
USLS, beampeak to 20° above beampeak, dB	17	16	15	14	16	14	15	15	13
Front-to-Back Total Power	22	22	23	23	23	25	31	31	28

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at 180° ± 30°, dB										
CPR at Boresight, dB	23	22	18	19	22	23	16	20	20	
CPR at Sector, dB	12	9	13	8	6	8				
CPR at 10 dB Horizontal Beamwidth, dB							6	11	12	
Mechanical Specifications										
Wind Loading @ Velocity, frontal			944.0	944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)						
Wind Loading @ Velocity, lateral			292.0	292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)						
Wind Loading @ Velocity, maximum			1,130	1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)						
Wind Loading @ Velocity, rear			650.0	650.0 N @ 150 km/h (146.1 lbf @ 150 km/h)						
Wind Speed, maximum			241 k	m/h (150 n	nph)					

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	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-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

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