

8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 2x RET

 Antenna includes 2xSingle Column X-Pol Arrays for 617-894MHz and 2xSingle Column X-Pol Arrays for 1695-2690MHz

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid 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 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET Low band (1) | Mid band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 498 mm | 19.606 in

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Depth 197 mm | 7.756 in

Length 1828 mm | 71.969 in

Net Weight, antenna only 32 kg | 70.548 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID		
R1	617-894	1 - 2		AISG1	CPxxxxxxxxxxxxR1		
R2	617-894	3 - 4					
Y1	1695-2690	5 - 6	,	115.51	CPxxxxxxxxxxxxY1		
Y2	1695-2690	7 - 8	2	AISG1			

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

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Electrical Specifications

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-728	758-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	14.1	14.7	17.8	18.1	18.2	18.8	18.8
Beamwidth, Horizontal, degrees	64	65	70	71	68	52	43
Beamwidth, Vertical, degrees	14.3	12.6	5.6	5.3	5	4.5	4.2
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	18	17	17	17	21	21
Front-to-Back Ratio at 180°, dB	28	28	33	38	37	33	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-728	758-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	13.5	14.3	17.4	17.8	17.9	18.3	18.3
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.6	±0.6	±0.4	±0.4	±0.6	±0.6
Beamwidth, Horizontal Tolerance, degrees	±7	±5	±4	±3	±5	±15	±7
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.8	±0.3	±0.2	±0.4	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB		18	16	16	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	21	27	30	30	29	27
CPR at Boresight, dB	17	17	19	21	18	16	20
CPR at Sector, dB	9	7	9	8	8	2	0

Mechanical Specifications

Effective Projective Area (EPA), frontal 0.58 m² | 6.243 ft²

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Effective Projective Area (EPA), lateral 0.18 m² | 1.938 ft²

 Wind Loading @ Velocity, frontal
 622.0 N @ 150 km/h (139.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 428.0 N @ 150 km/h (96.2 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
 2015 mm | 79.331 in

 Weight, gross
 45.6 kg | 100.531 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 NoteSevere environmental conditions may degrade optimum performance

