

8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, 45° HPBW, 4x RET

- Independent tilt for all arrays
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

General Specifications

Antenna Type Sector with internal RET

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

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 1 female | 1 male

Input Voltage 10–30 Vdc

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

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

Protocol 3GPP/AISG 2.0 (Multi-RET)

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Dimensions

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

Length 2437 mm | 95.945 in

Net Weight, antenna only 61 kg | 134.482 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1
R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxXMM.4

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 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
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
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
Gain, dBi	16.4	17.1	18.8	19.2	20	20.5
Gain at Mid Tilt, dBi	16	17	18.4	19.1	19.6	20.5
Beamwidth, Horizontal, degrees	51	45	46	49	47	38
Beamwidth, Vertical, degrees	9.6	8.4	5.7	5.3	5	4.5
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	15	15	16	16	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	28	30	26	26	27	26
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	-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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	300	300	300	250

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.9	16.9	18.3	18.9	19.4	20.2
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.7	±0.4	±0.7	±0.7
Gain by Beam Tilt, average, dBi	2° 16.0 8° 16.0 14° 15.7	2° 16.9 8° 17.0 14° 16.7	2° 18.3 7° 18.4 12° 18.1	2° 18.9 7° 19.1 12° 18.8	2° 19.4 7° 19.6 12° 19.3	2 ° 20.5 7 ° 20.5 12 ° 19.4
Beamwidth, Horizontal Tolerance, degrees	±7.6	±3.9	±4	±2.3	±3.3	±3
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.4	±0.3	±0.3	±0.1
Front-to-Back Total Power at 180° ± 30°, dB	23	21	24	26	26	24
CPR at Boresight, dB	20	20	16	17	18	20

Mechanical Specifications

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 Wind Loading @ Velocity, frontal
 954.0 N @ 150 km/h (214.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)

Wind Loading @ Velocity, maximum 1,434.0 N @ 150 km/h (322.4 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 79.2 kg | 174.606 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

ROHS Compliant UK-ROHS Compliant



Included Products

BSAMNT-3F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

