

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 65° HPBW, 6x RET.

- Optimized for rooftop applications Heavily suppressed lower sidelobes for elevation pattern
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- 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

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 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

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 (8) | Low band (4)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

COMMSC PE°

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2438 mm | 95.984 in

Net Weight, antenna only 48.4 kg | 106.704 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	698-896	1 - 2	1	ANxxxxxxxxxxxxx1
R2	698-896	3 - 4	2	ANxxxxxxxxxxxxx2
Y1	1695-2360	5 - 6	3	ANxxxxxxxxxxx3
Y2	1695-2360	7 - 8	4	ANxxxxxxxxxxxx4
Y3	1695-2360	9 - 10	5	ANxxxxxxxxxxxxx5
Y4	1695-2360	11 - 12	6	ANxxxxxxxxxxxxx6

(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 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$

Electrical Specifications

	R1,R2	R1,R2	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	14.9	15.6	17.1	17.7	18.2	18.3
Beamwidth, Horizontal, degrees	71	65	69	67	63	58
Beamwidth, Vertical, degrees	11	9.2	5.6	5.2	5	4.5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	12	11	19	20	22	24
Front-to-Back Ratio at 180°, dB	31	30	35	35	36	35
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 at 50°C, maximum, watts	300	300	300	250	250	200

Electrical Specifications, BASTA

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Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	14.5	15.3	16.7	17.2	17.7	17.9
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.6	±0.6	±0.6	±0.5
Beamwidth, Horizontal Tolerance, degrees	±7.4	±2.3	±7.9	±8.1	±6.3	±4.7
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.6	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	12	11	16	16	16	14
Front-to-Back Total Power at 180° ± 30°, dB	23	23	27	26	27	28

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CPR at Boresight, dB	21	23	20	21	20	18
CPR at Sector, dB	11	10	9	8	8	6

Mechanical Specifications

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

 Wind Loading @ Velocity, lateral
 331.0 N @ 150 km/h (74.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,235.0 N @ 150 km/h (277.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 785.0 N @ 150 km/h (176.5 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
 2625 mm | 103.347 in

 Weight, gross
 63.1 kg | 139.112 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-3F — Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance NoteSevere environmental conditions may degrade optimum performance

