

8-Port sector antenna, 4x698-896 and 4x3300-4000MHz, 45° HPBW, 1xRET and 1xSBT

- Features broadband Low Band (698-896 MHz) array for 4T4R (4X MIMO) capability for Band 14
- Perfect antenna to add 3.5GHz CBRS to macro sites
- Excellent wind loading characteristics
- Internal SBT on low band allow remote RET control from the radio over the RF jumper cable

This product will be discontinued on: December 31, 2025

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 Location Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 0
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 Bias Tee Port 1

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Internal RET Low band (1)

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

Protocol 3GPP/AISG 2.0

Dimensions

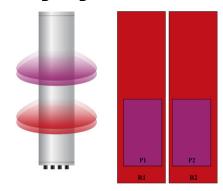
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 1828 mm | 71.969 in

 Net Weight, antenna only
 44.2 kg | 97.444 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	45°			CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R2	698-896	3 - 4	45°		AISG1	
P1	3300-4000	5 - 6	45°			A174
P2	3300-4000	7 - 8	45°	N/A	NA	N/A

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 3300 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	3300-3550	3550-3700	3700-4000
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	15.5	16.2	16.7	16.6	17.3
Beamwidth, Horizontal,	51	43	43	44	42

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degrees					
Beamwidth, Vertical, degrees	11.9	10.6	9.3	9	8.9
Beam Tilt, degrees	2-14	2-14	4	4	4
USLS (First Lobe), dB	12	15	16	16	15
Front-to-Back Ratio at 180°, dB	32	34	33	32	30
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	100	100	100

Mechanical Specifications

Wind Loading @ Velocity, frontal	715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	446.0 N @ 150 km/h (100.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	752 mm 29.606 in
Depth, packed	387 mm 15.236 in
Length, packed	1982 mm 78.032 in
Weight, gross	60 kg 132.277 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
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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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

