

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

General Specifications

RF Connector Interface

RF Connector Location

Antenna Type Sector

Multiband **Band**

Color Light Gray (RAL 7035)

Grounding Type RF connector inner conductor and body grounded to reflector and mounting

bracket

Bottom

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant **Radiator Material** Low loss circuit board

Reflector Material Aluminum 4.3-10 Female

RF Connector Quantity, high band RF Connector Quantity, low band 4

RF Connector Quantity, total

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

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

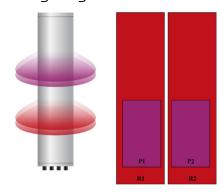
 Width
 640 mm | 25.197 in

 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°	1	11664	CPxxxxxxxxxxxxxxxxXR1	
R2	698-896	3 - 4	45°		AISG1		
P1	3300-4000	5 - 6	45°	N/A	NI/A	N/A	NI/A
P2	3300-4000	7 - 8	45°		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 $^{\circ}$ 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

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	3300-3550	3550-3700	3700-4000
Gain by all Beam Tilts, average, dBi	15.1	16	16.4	16.4	16.9
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.4	±0.5	±0.4	±0.6
Beamwidth, Horizontal Tolerance, degrees	±6	±5	±6	±5	±3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.5	±0.5	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB	12	15	14	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	22	27	26	23
CPR at Boresight, dB	19	20	12	14	17
CPR at Sector, dB	5	6	8	4	3

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)

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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





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

