

12-Port Sector/multibeam antenna, 4x 617–894 MHz 65° HPBW and 8x 1695–2360 MHz 4x 33° HPBW, 5x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces
- Each High Band antenna down tilt can be independently adjusted for greater flexibility in network optimization

General Specifications

Antenna Type Multibeam

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 8
RF Connector Quantity, mid band 0
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 (4) | Low band (1)

Power Consumption, active state, maximum 8 W

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 1224 mm | 48.189 in

 Net Weight, without mounting kit
 40.1 kg | 88.405 lb

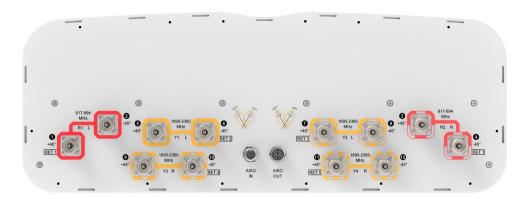
Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
R1	617-894	1-2	,	CD		
R2	617-894	3-4	1	CPxxxxxxxxxxxxxXR1		
Y1	1695-2360	5-6	2	CPxxxxxxxxxxxxxxxXY CPxxxxxxxxxxxxxXY		
Y2	1695-2360	7-8	3			
Y3	1695-2360	9-10	4			
Y4	1695-2360	11-12	5	CPxxxxxxxxxxxxx4		

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	12.6	13.2	13.1	18.1	19	19.4	18.7
Beam Centers, Horizontal, degrees				±27	±27	±27	±27
Beamwidth, Horizontal, degrees	72	63	64	36	35	32	29
Beamwidth, Vertical, degrees	21.3	18.8	16.4	7.4	6.9	6.5	5.8
Beam Tilt, degrees	5-22	5-22	5-18	2-10	2-10	2-10	2-10
USLS (First Lobe), dB	16	18	20	16	16	18	19
Front-to-Back Ratio at 180°, dB	29	33	27	35	36	36	31
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	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 520.0 N @ 150 km/h (116.9 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
 1379 mm | 54.291 in

 Weight, gross
 52.5 kg | 115.743 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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 Note Severe environmental conditions may degrade optimum performance

