

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
- 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

RF Connector Interface

RF Connector Location

Antenna Type Multibeam

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

4.3-10 Female

Bottom

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

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 (4) | Low band (1)

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

Protocol 3GPP/AISG 2.0 (Single RET)

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Dimensions

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 64.5 kg | 142.198 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID	
R1	617-894	1-2		CD	
R2	617-894	3-4	1	CPxxxxxxxxxxxx	
Y1	1695-2360	5-6	2	CPxxxxxxxxxxxxxY1	
Y2	1695-2360	7-8	3	CPxxxxxxxxxxxxx	
Y3	1695-2360	9-10	4	CPxxxxxxxxxxxxxXY3	
Y4	1695-2360	11-12	5	CPxxxxxxxxxxxx4	

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

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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	698-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain, dBi	15.8	16.1	18.9	19.6	20	20.1
Beam Centers, Horizontal, degrees			±27	±27	±27	±27
Beamwidth, Horizontal, degrees	68	65	37	36	34	30
Beamwidth, Vertical, degrees	10.6	8.9	5.2	4.9	4.6	4.2
Beam Tilt, degrees	2-12	2-12	2-10	2-10	2-10	2-10
USLS (First Lobe), dB	17	17	17	19	19	17
Front-to-Back Ratio at 180°, dB	29	32	34	37	36	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25
Isolation, Beam to Beam, dB			17	17	17	17
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	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	15.5	15.7	18.3	19.2	19.6	19.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.7	±0.5	±0.5	±1.1
Gain by Beam Tilt, average, dBi	2° 15.6 7° 15.6 12° 15.3	2° 15.8 7° 15.9 12° 15.6	2° 18.3 6° 18.4 10° 18.2	2° 19.1 6° 19.3 10° 19.2	2° 19.5 6° 19.7 10° 19.5	2° 19.6 6° 19.7 10° 19.5
Beamwidth, Horizontal Tolerance, degrees	±3.7	±5.4	±2.4	±2.1	±2.6	±2
Beamwidth, Vertical Tolerance, degrees	±0.7	±1	±0.3	±0.2	±0.3	±0.3
USLS, beampeak to 20° above	16	16	14	15	15	13

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beampeak, dB						
Front-to-Back Total Power at 180° ± 30°, dB	23	23	29	30	29	29
CPR at Boresight, dB	14	15	15	18	19	19
CPR at Sector, dB	9	9				
CPR at 10 dB Horizontal Beamwidth. dB			10	12	12	10

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,055.0 N @ 150 km/h (237.2 lbf @ 150 km/h)

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

 Wind Loading @ Velocity, maximum
 1,433.0 N @ 150 km/h (322.2 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
 87.5 kg | 192.904 lb

Regulatory Compliance/Certifications

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

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.

BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

