

10-port sector/multibeam antenna, 2x 694–960 sector and 8x 1695–2400 multibeam, 65° sector and 33° 4x multibeam, 3x 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

General Specifications

Antenna Type Multibeam

Band Multiband

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

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator Material Copper | Low 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, low band 2

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 RET High band (2) | Low band (1)

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 350 mm | 13.78 in

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Depth 208 mm | 8.189 in

Length 2438 mm | 95.984 in

Net Weight, antenna only 30.3 kg | 66.8 lb

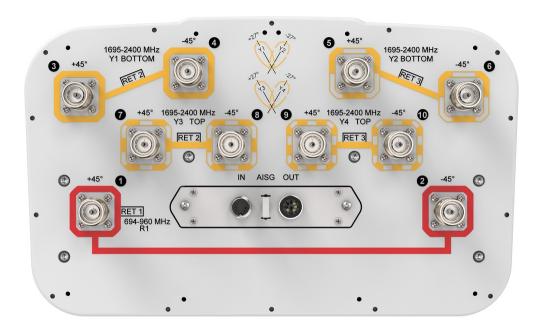
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID		
R1	694-960	1 - 2	1	CPxxxxxxxxxxxxxR1		
Y1	1695-2400	3 - 4	2	CD::::::::::::::::::::::::::::::::::::		
Y3	1695-2400	7 - 8	2	CPxxxxxxxxxxxxxY1		
Y2	1695-2400	5 - 6		CD::::::::::::::::::::::::::::::::::::		
Y4	1695-2400	9 - 10	3	CPxxxxxxxxxxxxxY2		

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

Port Configuration



Electrical Specifications



Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 694 – 960 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	694-790	790-890	880-960	1695-1880	1850-1990	1920-2180	2300-2400
Gain, dBi	16.1	16.6	16.8	17.5	18.5	19.2	19.4
Beamwidth, Horizontal, degrees	71	68	67	34	32	32	30
Beamwidth, Vertical, degrees	9.6	8.6	8	8.1	7.4	7	6.3
Beam Tilt, degrees	2-10	2-10	2-10	2-10	2-10	2-10	2-10
USLS (First Lobe), dB	17	20	19	16	16	18	19
Front-to-Back Ratio at 180°, dB	29	30	29	30	30	31	36
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30	30
Isolation, Beam to Beam, dB				16	16	16	16
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	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	200	200	200	200

Electrical Specifications, BASTA

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Frequency Band, MHz	694-790	790-890	880-960	1695-1880	1850-1990	1920-2180	2300-2400
Gain by all Beam Tilts, average, dBi	15.8	16.4	16.6	16.8	18	18.6	18.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.2	±1	±0.6	±0.6	±0.8
Beamwidth, Horizontal Tolerance, degrees	±1.9	±1.7	±1.3	±1.7	±1	±0.9	±1.2
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.4	±0.4	±0.3	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	17	18	17	15	16	16	13
Front-to-Back Total Power at 180° ± 30°, dB	24	23	22	22	25	26	29
CPR at Boresight, dB	14	16	15	15	18	18	15

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Mechanical Specifications

 Wind Loading @ Velocity, frontal
 425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 899.0 N @ 150 km/h (202.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 2585 mm | 101.772 in

 Weight, gross
 44 kg | 97.003 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



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 NoteSevere environmental conditions may degrade optimum performance

