

8-port sector/multibeam antenna, 2x 694–960 MHz 65° HPBW,2x1695-2690MHZ 65° and 4x 1710–2690 MHz 4x 33°HPBW, 4x RET with tilt indicators

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- All Internal RET actuators are connected in "Cascaded SRET" configuration

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, mid band 6
RF Connector Quantity, low band 2
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 RET Low band (1) | Mid band (3)

Power Consumption, active state, maximum $10~\mathrm{W}$ Power Consumption, idle state, maximum $2~\mathrm{W}$

Protocol 3GPP/AISG 2.0

Dimensions

COMMSCOPE®

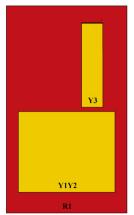
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 2688 mm | 105.827 in

Net Weight, antenna only 35 kg | 77.162 lb

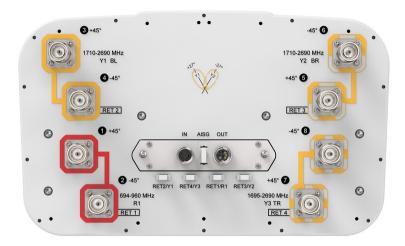
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1
Y1	1695-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxXY3

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 1710 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W

Electrical Specifications

	R1	R1	R1	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2
Frequency Band, MHz	694-790	790-890	880-960	1710-1880	1850-1990	1920-2170	2300-2400
RF Port	1,2	1,2	1,2	3-6	3-6	3-6	3-6
Beamwidth, Horizontal, degrees	68	66	64	36	35	32	26
Beamwidth, Vertical, degrees	8.9	8.1	7.4	7.2	6.8	6.5	5.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	17	17	17	17	18
Front-to-Back Ratio at 180°, dB	40	37	33	37	36	35	35
Isolation, Cross Polarization, dB	28	28	28	27	27	27	27
Isolation, Inter-band, dB	28	28	28	27	27	27	27
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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	880-960	1710-1880	1850-1990	1920-2170	2300-2400
Gain by all Beam Tilts,	16.2	16.6	16.8	17.5	18.6	19.2	19.8
average, dBi							

Electrical Specifications

	Y1-Y2	Y3	Y3	Y3	Y3
Frequency Band, MHz	2490-2690	1695-1880	1920-2170	2300-2400	2490-2690
RF Port	3-6	7,8	7,8	7,8	7,8
Beamwidth, Horizontal, degrees	25	60	65	65	63

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Beamwidth, Vertical, degrees	5.2	6.7	6	5.4	5
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	20	20	20	20
Front-to-Back Ratio at 180°, dB	33	33	36	38	37
Isolation, Cross Polarization, dB	27	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27	27
Isolation, Beam to Beam, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	2490-2690	1695-1880	1920-2170	2300-2400	2490-2690
Gain by all Beam Tilts,	20	17	17.6	18.2	18.3
average. dBi					

Mechanical Specifications

Wind Loading @ Velocity, frontal	477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	506.0 N @ 150 km/h (113.8 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	2834 mm 111.575 in
Weight, gross	46.7 kg 102.956 lb

Regulatory Compliance/Certifications

Agency	Classification
Agency	Ciassilication

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

