

16-port sector antenna, 4x 694–960 and 8x 1695-2690 MHz 65° HPBW and 4x 1695-2400 MHz 2x 33° HPBW, 8x RET.

• 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, high band

12

RF Connector Quantity, low band

4

RF Connector Quantity, total

16

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (6) | Low band (2)

Power Consumption, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 498 mm | 19.606 in

COMMSCOPE®

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 53.6 kg | 118.168 lb

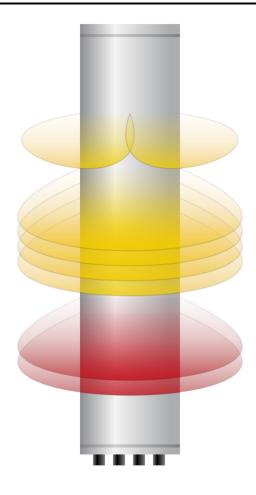
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxXY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxx4
Y5	1695-2400	13 - 14	7	AISG1	CPxxxxxxxxxxxxxY5
Y6	1695-2400	15 - 16	8	AISG1	CPxxxxxxxxxxxxXY6

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

Beams Configuration



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

·	R1-R2	R1-R2	Y1-Y4	Y1-Y4	Y1-Y4	Y5-Y6	Y5-Y6	Y5-Y6
Frequency Band, MHz	694-790	790-960	1695-192	0 1920-218	0 2300-269	0 1695–188	0 1920-218	0 2300-2400
Gain, dBi	15.9	16.6	16.5	17.8	18.4	17.9	19.4	19.3
Beam Centers, Horizontal, degrees						±27	±27	±27
Beamwidth, Horizontal, degrees	70	62	68	62	58	32	31	30
Beamwidth, Vertical, degrees	9	7.7	7.4	6.5	5.5	7.4	6.5	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	19	18	19	24	19	21	22
Front-to-Back Ratio at 180°, dB	31	30	33	32	31	32	36	32
Isolation, Cross Polarization,	28	28	25	25	25	25	25	25

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dB								
Isolation, Inter-band, dB	28	28	28	28	28	28	28	28
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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	200	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-960	1695-192	0 1920-218	0 2300-269	0 1695–188	0 1920-218	0 2300-2400
Gain by all Beam Tilts, average, dBi	15.6	16.2	16.1	17.3	18	17.2	18.7	18.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.7	±0.8	±0.5	±1.3	±0.8	±1.3
Gain by Beam Tilt, average, dBi	2° 15.6 7° 15.7 12° 15.5	2° 16.1 7° 16.4 12° 16.1	2° 16.0 7° 16.2 12° 16.1	2° 17.1 7° 17.5 12° 17.2	2° 17.9 7° 18.2 12° 17.8	2° 17.2 7° 17.5 12° 17.1	2° 18.7 7° 19.1 12° 18.7	2° 18.9 7° 19.1 12° 18.6
Beamwidth, Horizontal Tolerance, degrees	±5.3	±4.6	±5.9	±5.3	±4.5	±2.2	±1.5	±1
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.7	±0.6	±0.5	±0.4	±0.4	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	17	17	16	18	17	16	17	14
Front-to-Back Total Power at 180° ± 30°, dB	21	22	26	26	26	27	30	29
CPR at Boresight, dB	19	20	19	21	20	17	19	15
CPR at Sector, dB	11	9	7	7	7			
CPR at 10 dB Horizontal Beamwidth, dB						4	8	11

Mechanical Specifications

Mechanical Tilt Range 0°-12°

Wind Loading @ Velocity, frontal 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

Wind Loading @ Velocity, lateral 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

Wind Loading @ Velocity, maximum 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed 565 mm | 22.244 in

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 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 74.6 kg | 164.465 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

ROHS Compliant UK-ROHS Compliant



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

