

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 45° HPBW, 3x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput

General Specifications

Antenna Type Sector

Band Multiband

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

bracket

Performance Note

Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, mid band 4

RF Connector Quantity, low band 2
RF Connector Quantity, total 6

Remote Electrical Tilt (RET) Information

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 (2)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1399 mm | 55.079 in

 Net Weight, antenna only
 26.1 kg | 57.541 lb

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Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxx1.1
Y1	1695-2690	3 - 4	2	AISG1	ANxxxxxxxxxxxx1.2
Y2	1695-2690	5 - 6	3	AISG1	ANxxxxxxxxxxxx1.3

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 550 W @ 50 °C

COMMSCOPE®

BASTA Version, electrical

BASTA v12

Electrical Specifications

	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2180	2300-2690
RF Port	1,2	1,2	1,2	3-6	3-6	3-6
Gain, dBi	15.5	16.1	16.5	18.8	19.3	19.6
Beamwidth, Horizontal, degrees	47	44	40	45	40	34
Beamwidth, Vertical, degrees	17.4	15.6	14.5	6.9	6.3	5.4
Beam Tilt, degrees	2-18	2-18	2-18	2-12	2-12	2-12
USLS (First Lobe), dB	20	20	17	14	15	16
Front-to-Back Ratio at 180°, dB	30	32	31	37	36	36
Front-to-Back Total Power at 180° ± 30°, dB	22	21	22	28	29	26
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200

Electrical Specifications, BASTA

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Frequency Band, MHz	694-790	790-890	890-960	1695-1920	1920-2180	2300-2690
Gain by all Beam Tilts, average, dBi	15.1	15.8	16.3	18.1	18.7	19.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.7	±0.8	±0.8
Beamwidth, Horizontal Tolerance, degrees	±3	±2	±3	±5	±3	±3
Beamwidth, Vertical Tolerance, degrees	±1.2	±0.8	±0.8	±0.6	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	e			13	13	14
CPR at Boresight, dB	20	18	20	17	20	18
CPR at Sector, dB	15	16	11	14	13	3

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Mechanical Specifications

 Wind Loading @ Velocity, frontal
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 159.0 N @ 150 km/h (35.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 608 mm | 23.937 in

 Depth, packed
 346 mm | 13.622 in

 Length, packed
 1542 mm | 60.709 in

 Weight, gross
 41.1 kg | 90.61 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above 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/Exempted
UK-ROHS	Compliant/Exempted





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

