

18-port sector antenna, 6x 694-960, 12x 1695-2690 MHz, 65° HPBW, 9xRET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

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

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 12

RF Connector Quantity, low band 6

RF Connector Quantity, total 18

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 Low band (3) | Mid band (6)

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

Protocol 3GPP/AISG 2.0



Dimensions

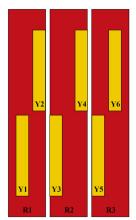
 Width
 579 mm | 22.795 in

 Depth
 212 mm | 8.346 in

Length 2100 mm | 82.677 in

Net Weight, antenna only 47.5 kg | 104.719 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxR3
Y1	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxY4
Y5	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxY5
Y6	1695-2690	17 - 18	9	AISG1	CPxxxxxxxxxxxxxY6

(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 900 W @ 50 °C

Electrical Specifications

	R1,R3	R1,R3	R1,R3	R2	R2	R2
Frequency Band, MHz	698-806	790-894	890-960	698-806	790-894	890-960
RF Port	1, 2, 5, 6	1, 2, 5, 6	1, 2, 5, 6	3, 4	3, 4	3, 4
Gain at Mid Tilt, dBi	13.9	14.5	14.6	12.6	13.9	14.9
Beamwidth, Horizontal,	62	60	56	62	58	51

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degrees						
Beamwidth, Vertical, degrees	10.3	9.1	8.6	11	10.5	9.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	15	14	14	16
Front-to-Back Ratio at 180°, dB	29	26	25	25	27	31
Front-to-Back Total Power at 180° ± 30°, dB	24	22	21	22	24	28
Isolation, Cross Polarization, typical, dB	25	25	25	25	25	25
Isolation, Inter-band, typical, 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	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960	698-806	790-894	890-960
Gain by all Beam Tilts, average, dBi	13.8	14.4	14.5	12.5	13.9	14.8
USLS, beampeak to 20° above beampeak, dB	15	15	14	14	14	16
CPR at Boresight, dB	21	20	20	16	19	21
CPR at Sector, dB	12	10	4	7	7	7

Electrical Specifications

	Y1,Y3,Y5	Y1,Y3,Y5	Y1,Y3,Y5	Y1,Y3,Y5
Frequency Band, MHz	1695-1995	1920-2300	2300-2500	2490-2690
RF Port	7, 8, 11, 12, 15, 16			
Gain at Mid Tilt, dBi	16.3	17.2	17.7	17.8
Beamwidth, Horizontal, degrees	61	59	61	62
Beamwidth, Vertical, degrees	6.8	6.1	5.6	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	19	18
Front-to-Back Ratio at 180°, dB	29	29	32	32

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Front-to-Back Total Power at 180° ± 30°, dB	24	24	24	27
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	16.2	17	17.6	17.7
USLS, beampeak to 20° above beampeak, dB	15	15	16	16
CPR at Boresight, dB	19	19	21	22
CPR at Sector, dB	6	4	5	4

Electrical Specifications

	Y2,Y4,Y6	Y2,Y4,Y6	Y2,Y4,Y6	Y2,Y4,Y6
Frequency Band, MHz	1695-1995	1920-2300	2300-2500	2490-2690
RF Port	9, 10, 13, 14, 17, 18			
Gain at Mid Tilt, dBi	16	17	17.7	17.5
Beamwidth, Horizontal, degrees	64	61	60	61
Beamwidth, Vertical, degrees	6.8	6.2	5.6	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	17	20	19
Front-to-Back Ratio at 180°, dB	29	29	31	32
Front-to-Back Total Power at 180° ± 30°, dB	24	25	27	28
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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

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Input Power per Port at 50°C,	250	250	200	200
maximum, watts				

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	15.9	16.8	17.5	17.4
USLS, beampeak to 20° above beampeak, dB	13	15	15	15
CPR at Boresight, dB	20	21	20	19
CPR at Sector, dB	5	4	4	4

Mechanical Specifications

Wind Loading @ Velocity, frontal	576.0 N @ 150 km/h (129.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	241.0 N @ 150 km/h (54.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	919.0 N @ 150 km/h (206.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	584.0 N @ 150 km/h (131.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	681 mm 26.811 in
Depth, packed	368 mm 14.488 in
Length, packed	2239 mm 88.15 in
Weight, gross	61.8 kg 136.246 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-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.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

