

16-port sector antenna, 4x 694-960, 4x 1427-2690, and 8x 1695-2690 MHz 65° HPBW, 8 x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type Sector

Band Multiband

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

bracket

Performance NoteOutdoor usageRF Connector Interface4.3-10 Female

RF Connector Location

RF Connector Quantity, mid 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 Low band (2) | Mid band (6)

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 430 mm | 16.929 in

 Depth
 197 mm | 7.756 in

 Length
 2769 mm | 109.016 in

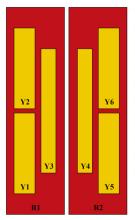
Page 1 of 5



Net Weight, antenna only

44.6 kg | 98.326 lb

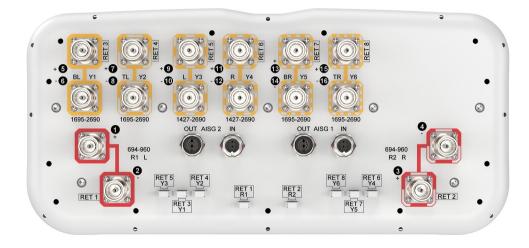
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	694-960	1 - 2	1	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	CPxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	CPxxxxxxxxxxxxxY2
Y3	1427-2690	9 - 10	5	CPxxxxxxxxxxxxY3
Y4	1427-2690	11 - 12	6	CPxxxxxxxxxxxxY4
Y5	1695-2690	13 - 14	7	CPxxxxxxxxxxxxxY5
Y6	1695-2690	15 - 16	8	CPxxxxxxxxxxxxY6

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

Port Configuration



Electrical Specifications



Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,200 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y3,Y4	Y3,Y4	Y3,Y4	Y3,Y4	Y3,Y4
Frequency Band, MHz	698-806	790-894	890-960	1427-1518	1695-1995	5 1920-2300	2300-250	0 2490-2690
RF Port	1-4	1-4	1-4	9-12	9-12	9-12	9-12	9-12
Gain at Mid Tilt, dBi	15.5	16.1	16.4	15.4	16.2	17.3	18.2	18.3
Beamwidth, Horizontal, degrees	61	55	53	64	68	68	61	58
Beamwidth, Vertical, degrees	7.7	6.9	6.4	6.9	5.7	5.1	4.5	4.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	16	17	16	17	18	18
Front-to-Back Ratio at 180°, dB	35	35	32	32	32	32	32	33
Front-to-Back Total Power at 180° ± 30°, dB	23	23	23	24	26	26	27	27
Isolation, Cross Polarization, dB	27	27	27	26	26	26	26	26
Isolation, Inter-band, dB	27	27	27	26	26	26	26	26
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	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960	1427-151	8 1695–199	5 1920-230	0 2300-250	0 2490-2690
Gain by all Beam Tilts, average, dBi	15.4	16	16.3	15.4	16.1	17.1	18	18.1
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.3	±0.4	±0.7	±0.8	±0.9	±0.6	±0.7
Beamwidth, Horizontal Tolerance, degrees	±6	±5	±4	±11	±8	±9	±5	±4
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.3	±0.4	±0.4	±0.2	±0.2
USLS, beampeak to 20° above	15	15	16	16	16	16	17	18

Page 3 of 5



beampeak, dB								
CPR at Boresight, dB	24	22	21	18	17	17	18	15
CPR at Sector, dB	10	7	8	7	5	4	6	2

Electrical Specifications

Y1,Y2,Y5,Y6Y1,Y2,Y5,Y6Y1,Y2,Y5,Y6Y1,Y2,Y5,Y6

	11,12,10,1	011,12,10,1	311,12,10,10	711,12,10,10
Frequency Band, MHz	1695-1995	1920-2300	2300-2500	2490-2690
RF Port	5-8,13-16	5-8,13-16	5-8,13-16	5-8,13-16
Gain at Mid Tilt, dBi	16.1	17.2	17.9	17.7
Beamwidth, Horizontal, degrees	69	64	62	61
Beamwidth, Vertical, degrees	6.4	5.6	5	4.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	16	17
Front-to-Back Ratio at 180°, dB	32	31	32	33
Front-to-Back Total Power at 180° ± 30°, dB	26	25	26	26
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27
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	5 1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	16	17.1	17.8	17.6
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.9	±0.4	±0.6
Beamwidth, Horizontal Tolerance, degrees	±9	±9	±5	±6
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	15	15	16	16
CPR at Boresight, dB	18	17	18	17

Page 4 of 5

CPR at Sector, dB 7 6 9 4

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,020.0 N @ 150 km/h (229.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 511 mm | 20.118 in

 Depth, packed
 318 mm | 12.52 in

 Length, packed
 2890 mm | 113.78 in

 Weight, gross
 64.3 kg | 141.757 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.

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

