

16-port sector antenna, 4x694-960 (R1 & R2), 4x1427-2690 (Y3 & Y4) and 8 x 1695-2690 MHz (Y1/Y2/Y5/Y6), 65° HPBW, 8xRET

- 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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 0

RF Connector Quantity, mid band 12

RF Connector Quantity, low band 4

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface AISG1 8-pin DIN Female | AISG1 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 $8~\mathrm{W}$ Power Consumption, idle state, maximum $1~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)



Page 1 of 6

Dimensions

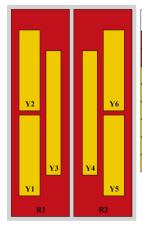
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2100 mm | 82.677 in

Net Weight, antenna only 42.9 kg | 94.578 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	694-960	1 - 2	1	CPxxxxxxxxxxxxxXR1
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	CPxxxxxxxxxxxxxY3
Y4	1427-2690	11 - 12	6	CPxxxxxxxxxxxxxY4
Y5	1695-2690	13 - 14	7	CPxxxxxxxxxxxxxxY5
Y6	1695-2690	15 - 16	8	CPxxxxxxxxxxxxxY6

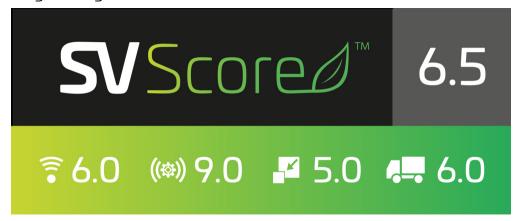
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration





Logo Image



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 1518 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 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	790-896	890-960	1427-1518	1695-199	01920-230	02300-250	02490-2690
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	9,10,11,12	9,10,11,12	9,10,11,12	9,10,11,12	9,10,11,12
Gain at Mid Tilt, dBi	14.9	15.4	15.4	16.1	17.5	18.5	18.8	18.6
Beamwidth, Horizontal, degrees	67	64	62	72	65	57	57	60
Beamwidth, Vertical, degrees	11.3	10.1	9.3	6.8	5.6	5	4.4	4.2
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	20	20	18	16	14	15	16
Front-to- Back Ratio at 180°, dB	33	30	29	33	35	37	36	35

Page 3 of 6



Isolation, Cross Polarization, dB	28	28	28	26	26	26	26	26
Isolation, Inter-band, dB	28	28	28	27	27	27	27	27
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	200	200	200

Electrical Specifications

	Y1,Y2,Y5,Y6	Y1,Y2,Y5,Y6	Y1,Y2,Y5,Y6	Y1,Y2,Y5,Y6
Frequency Band, MHz	1695-1990	1920-2300	2300-2500	2490-2690
RF Port	5,6,7,8,13,14,15,1	6 5,6,7,8,13,14,15,1	6 5,6,7,8,13,14,15,1	6 5,6,7,8,13,14,15,16
Gain at Mid Tilt, dBi	15.4	16.3	16.7	17
Beamwidth, Horizontal, degrees	68	60	59	57
Beamwidth, Vertical, degrees	9.6	8.7	7.9	7.5
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	17	17
Front-to- Back Ratio at 180°, dB	32	30	32	31
Isolation, Cross Polarization, dB	25	25	25	25
Isolation,	27	27	27	27

Page 4 of 6



Inter-band, dB				
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	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	714.0 N @ 150 km/h (160.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	187.0 N @ 150 km/h (42.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	949.0 N @ 150 km/h (213.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	491.0 N @ 150 km/h (110.4 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2287 mm 90.039 in
Weight, gross	57.2 kg 126.104 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





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

