

16-port sector antenna, 4x 694-960, 2x 790-960,2x 1427-2690 and 8x 1695-2690 MHz, 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

Radome Material Fiberglass, UV resistant

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, mid band

RF Connector Quantity, low band

RF Connector Quantity, total

10

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 (5)

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

Protocol 3GPP/AISG 2.0

Dimensions

COMMSC PE°

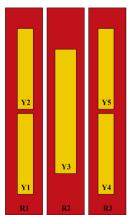
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2280 mm | 89.764 in

Net Weight, antenna only 44 kg | 97.003 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	790-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxR2
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	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxY4
Y5	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxY5

(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 | 790 – 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R3	R1,R3	R1,R3	R2	R2
Frequency Band, MHz	698-806	790-894	890-960	790-894	890-960
RF Port	1-2,5-6	1-2,5-6	1-2,5-6	3,4	3,4
Beamwidth, Horizontal, degrees	75	74	68	71	59
Beamwidth, Vertical, degrees	9.9	8.8	8	10	9.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	15	14	15	16
Front-to-Back Ratio at 180°, dB	26	30	28	24	23
Front-to-Back Total Power at 180° ± 30°, dB	17	21	20	22	20
Isolation, Cross Polarization, typical, dB	25	25	25	25	25
Isolation, Inter-band, typical, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960	790-894	890-960
Gain by all Beam Tilts, average, dBi	13.7	14.4	14.6	12.9	12.9
Gain by all Beam Tilts	±0.5	±0.5	±0.5	±0.8	±0.6

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Tolerance, dB					
Beamwidth, Horizontal Tolerance, degrees	±9.2	±7.2	±14.5	±12.1	±12.3
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.8	±0.6	±0.8	±0.8
USLS, beampeak to 20° above beampeak, dB	16	14	13	14	12
CPR at Boresight, dB	21	19	15	18	14

Electrical Specifications

	Y3	Y3	Y3	Y3	Y3	Y1,Y2,Y4,Y	5Y1,Y2,Y4,Y	5 Y1,Y2,Y4,Y	5Y1,Y2,Y4,Y5
Frequency Band, MHz	1427-15	181695-199	951920-230	002300-250	002490-269	01695-199	5 1920-2300	2300-2500	2490-2690
RF Port	11,12	11,12	11,12	11,12	11,12	7-10,13-16	7-10,13-16	7-10,13-16	7-10,13-16
Beamwidth, Horizontal, degrees	65	53	56	61	60	56	56	61	56
Beamwidth, Vertical, degrees	7.1	5.8	5.2	4.6	4.4	8.3	7.4	6.5	6.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	18	18	16	16	16	18	19
Front-to-Back Ratio at 180°, dB	35	36	35	35	33	30	32	31	28
Front-to-Back Total Power at 180° ± 30°, dB	29	29	29	29	27	24	26	25	23
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	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	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	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	1427-15	5181695-19	951920-23	3002300-25	002490-26	6901695-19	95 1920-23	800 2300-25	500 2490-2690
Gain by all Beam Tilts,	16.5	17.7	18.3	18.4	17.6	15.9	16.6	16.7	16.3
average, dBi									

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Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.7	±0.5	±0.7	±0.8	±0.8	±0.6	±0.8
Beamwidth, Horizontal Tolerance, degrees	±3.3	±3	±6	±4.3	±7.3	±5.2	±5.1	±5.3	±9.2
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.4	±0.4	±0.3	±0.2	±0.7	±0.6	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	14	17	18	17	16	14	15	14	13
CPR at Boresight, dB	20	19	17	16	17	17	17	22	22

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 800.0 N @ 150 km/h (179.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 247.0 N @ 150 km/h (55.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 959.0 N @ 150 km/h (215.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 551.0 N @ 150 km/h (123.9 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
 2467 mm | 97.126 in

 Weight, gross
 58.3 kg | 128.529 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

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.

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* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

