

10-port sector antenna, 2x 617–960, 4x 1427–2690 MHz and 4x 1695–2690 MHz, 65° HPBW, 5x RET with tilt indicators

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Wind Loading; Frontal / Lateral / Rear 477 / 409 / 506 N @ 150km/h
- 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

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 8

RF Connector Quantity, mid band

RF Connector Quantity, low band 2

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface, quantity 2 female | 2 male

Input Voltage 10–30 Vdc

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

Protocol 3GPP/AISG 2.0 (Single RET)

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Dimensions

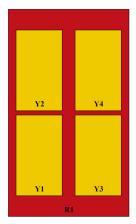
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 2688 mm | 105.827 in

Net Weight, antenna only 33.6 kg | 74.075 lb

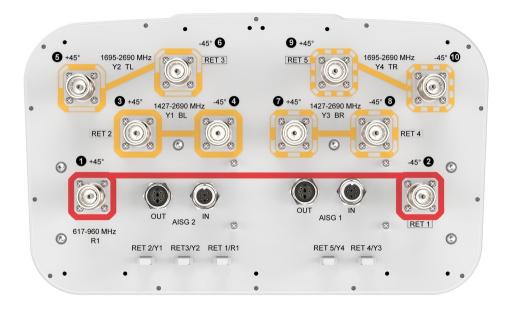
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxXR1
Y1	1427-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxY2
Y3	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxXY3
Y4	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxx4

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 1518 MHz | 1695 – 2690 MHz | 617 – 960 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	617-690	690-790	790-890	890-960	1427-1518	1695-1920	1930-2200
Gain, dBi	16	16	16.5	16.5	15	16.8	17.2
Beamwidth, Horizontal, degrees	73	73	70	71	71	58	56
Beamwidth, Vertical, degrees	9.3	8.4	7.5	6.9	9.4	7.7	6.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	20	18	18	15	15	15
Front-to-Back Ratio at 180°, dB	26	29	32	34	32	38	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	300	250	250	250

Electrical Specifications

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Frequency Band, MHz	2300-2500	2500-2690	1695-1920	1930-2200	2300-2500	2500-2690
Gain, dBi	17.4	17.3	16.5	17.2	17.5	17.5
Beamwidth, Horizontal, degrees	66	62	61	60	62	60
Beamwidth, Vertical, degrees	5.8	5.4	7.5	6.6	5.8	5.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	17	16	16	19	18
Front-to-Back Ratio at 180°, dB	31	29	38	37	32	32
Isolation, Cross Polarization, dB	25	25	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	200	200	250	250	200	200

maximum, watts

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 460 mm | 18.11 in

 Depth, packed
 350 mm | 13.78 in

 Length, packed
 2830 mm | 111.417 in

 Weight, gross
 47.5 kg | 104.719 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.andrew.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



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

