

24-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2180, 4x 2490-2690 MHz, 65° HPBW, and 8x 3300-3800 MHz, 90° HPBW, 8x RET

- Antenna includes 2x Single Column X-Pol Arrays for 694-960MHz and 2x Single Column X-Pol Arrays for 1427-2690MHz, suitable for 4x MIMO applications
- Includes 2x Single Column X-Pol Diplexed Arrays providing 4-Ports x 1695-2180MHz and 4 Ports x 2490-2690MHz, suitable for 4x MIMO applications
- Retractable tilt indicator rods
- Includes eight Internal RET's. All 2490-2690MHz (Y1&Y4) ports share common RET
- M-LOC cluster connector for 3.3-3.8GHz, equipped with calibration port
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type Sector and beamforming

BandMultibandCalibration Connector InterfaceM-LOCCalibration Connector Quantity1

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 | M-LOC

RF Connector LocationBottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 12
RF Connector Quantity, low band 4
RF Connector Quantity, total 24

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

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Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (2) | Mid band (5)

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

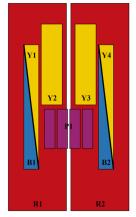
 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 41.2 kg | 90.83 lb

 TDD Column Spacing
 42 mm | 1.654 in

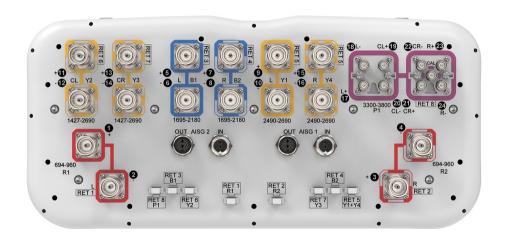
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxR2
B1	1695-2180	5 - 6	3	AISG1	CPxxxxxxxxxxxxxB1
B2	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxB2
Y1	2490-2690	9 - 10	5	415.54	60
Y4	2490-2690	15 - 16	5	AISG1	CPxxxxxxxxxxxxxY1
Y2	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxY2
Y3	1427-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxY3
P1	3300-3800	17 - 24	8	AISG1	CPxxxxxxxxxxxxxxP1

(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 – 2180 MHz | 2490 – 2690 MHz | 3300 – 3800

MHz | 694 - 960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1427-151	81695-220	02300-269	01695-218	02490-2690	03300-3800
Gain, dBi	14.1	15	15	14.1	15.9	16.6	17.1	17.7	16
Beamwidth, Horizontal, degrees	70	60	59	69	63	61	69	64	82
Beamwidth, Vertical, degrees	10.6	9.5	8.7	9.9	7.6	6.2	5.2	4.2	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	20	19	18	13	18	20	19	21	16
Front-to-Back Ratio at 180°, dB	31	31	30	34	34	31	32	32	29
Coupling level, Amp, Antenna port to Cal port, dB									26
Coupling level, max Amp Δ , Antenna port to Cal port, dB									±2

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Coupler, max Amp Δ, Antenna port to Cal port, dB									0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees									7
CPR at Boresight, dB	22	23	23	16	18	17	18	23	18
Isolation, Cross Polarization, dB	27	27	27	26	26	26	27	27	25
Isolation, Inter-band, dB	27	27	27	26	26	26	26	27	25
Isolation, Co-polarization, dB									19
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	-140
Input Power per Port at 50° C, maximum, watts	250	250	250	200	200	150	200	150	75
Electrical Specifica	tions, E	Broadca	ast 65°	•					
Frequency Band, MHz									3300-3800
Gain, dBi									16.5
Beamwidth, Horizontal, degrees									57
Beamwidth, Vertical, degrees									6.1
Front-to-Back Total Power at 180° ± 30°, dB									24
USLS (First Lobe), dB									17
Electrical Specifica	tions, S	Service	Beam						
Frequency Band, MHz									3300-3800
Steered 0° Gain, dBi									20.8
Steered 0° Beamwidth, Horizontal, degrees									23
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB									30
Steered 0° Horizontal Sidelobe, dB									15
Steered 30° Gain, dBi									19.6
Steered 30° Beamwidth, Horizontal, degrees									28

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Steered 30° Front-to-Back
Total Power at 180° ± 30°,

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.7
Beamwidth, Horizontal, degrees	31
Front-to-Back Total Power at 180° ± 30°, dB	28
Horizontal Sidelobe, dB	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	495.0 N @ 150 km/h (111.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	253.0 N @ 150 km/h (56.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	316.0 N @ 150 km/h (71.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2272 mm 89.449 in
Weight, gross	53.5 kg 117.947 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products



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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



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Agency

REACH-SVHC

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Classification

CE Compliant with the relevant CE product directives CHINA-ROHS Below maximum concentration value ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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

ROHS Compliant UK-ROHS Compliant



