

20-port sector antenna, 4x 617-894, 8x 1695-2690 MHz 65° HPBW and 8x 2300-4200 MHz, Beamformer, 7x RET

- Includes 1x 4-Column Array for 2300-4200MHz and calibration port
- Q4 array uses M-LOC cluster connectors
- New aerodynamic endcaps for wind load optimization

General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	M-LOC
Calibration Connector Quantity	1
Color	Light Gray (RAL 7035)
Grounding Type	RF 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 Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10-30 Vdc
Internal RET	High band (1) Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W

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Protocol

3GPP/AISG 2.0 (Single RET)

Dimensions

Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, antenna only	41.2 kg 90.83 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	617-894	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXY3
¥4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxXXXXXXY4
P1	2300-4200	13 - 20	7	AISG1	CPxxxxxxxxxxxxxxxP1

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

Port Configuration



Logo Image

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 2300 – 4200 MHz 617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	1,400 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1,Y2,Y3,Y	441,42,43,4	4 Y 1, Y 2, Y 3, Y	4P1	P1	P1
Frequency Band, MHz	617-698	698-894	1695-192	0 1920-2200	2490-2690	2300-2690	0 3300-380	0 3700-4200
RF Port	1-4	1-4	5-12	5-12	5-12	13-20	13-20	13-20
Gain, dBi	14.5	15	16.2	17.1	17.2	14.5	15.6	15.4
Beamwidth, Horizontal, degrees	66	56	65	60	57	81	63	63
Beamwidth, Vertical, degrees	11.8	10.1	6.7	6	5.1	9.4	6.7	6.3
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	16	18	19	16	18	16
Front-to-Back Ratio at 180°, dB	28	31	32	35	29	30	27	24
Front-to-Back Total Power at 180° ± 30°, dB	22	22	26	28	23	24	22	20
Coupling level, Amp, Antenna port to Cal port, dB						-26	-26	-26
Coupling level, max Amp Δ, Antenna port to Cal port, dB						±2	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB						0.9	0.9	0.9

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Coupler, max Phase Δ, Antenna port to Cal port, degrees						7	7	7
CPR at Boresight, dB	19	19	19	22	17	15	15	13
CPR at Sector, dB	10	8	7	7	4	7	6	3
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB						18	18	18
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	-150	-150	-150	-150	-150	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	80	80	80

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-269	0 3300–380	0 3700-4200
Gain, dBi	15.7	15.9	15.7
Beamwidth, Horizontal, degrees	65	65	65
Beamwidth, Horizontal at 10 dB, degrees	114	119	123
Beamwidth, Vertical, degrees	9.3	6.8	6.4
Front-to-Back Total Power at 180° ± 30°, dB	27	23	21
USLS (First Lobe), dB	18	17	16

Electrical Specifications, Envelope Pattern

Frequency Band, MHz	2300-2690) 3300–3800	0 3700-4200
Front-to-Back Total Power at 180° ± 30°, dB	28	26	23
USLS (First Lobe), dB	19	20	19

Electrical Specifications, Service Beam

Frequency Band, MHz	2300-269	0 3300-380	00 3700-4200
Steered 0° Gain, dBi	19.1	20.4	20.3
Steered 0° Beamwidth, Horizontal, degrees	24	19	18
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	31	27	26

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Steered 0° Horizontal Sidelobe, dB	14	13	12
Steered 30° Gain, dBi	17.9	18.7	18.2
Steered 30° Beamwidth, Horizontal, degrees	30	21	19
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	29	25	22

Mechanical Specifications

Wind Loading @ Velocity, frontal	728.0 N @ 150 km/h (163.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	873.0 N @ 150 km/h (196.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	501.0 N @ 150 km/h (112.6 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	55.7 kg 122.797 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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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.

Product Classification	
Product Type	Downtilt mounting kit
General Specifications	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	6.5 kg 14.33 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets Hardware
Packaging quantity	1
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



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