

28-port sector antenna, 4x 694-960, 4x 1427-2690 and 4x 1695-2690 MHz 65° HPBW, 8x 2300-2690 and 8x 3300-3800MHz, 90° HPBW, 8x RET

- Also includes 1x 4-Column Array for 2300-2690 MHz and a separate 1x 4-Column Array for 3300-3800MHz. Column spacing optimized to support Soft Split Beamforming
- Includes eight Internal RET's
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- New end cap shape for additional wind load reduction
- 4 M-LOC cluster connectors for the two planar beamforming arrays

General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	M-LOC
Calibration Connector Quantity	2
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	16
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	28

Remote Electrical Tilt (RET) Information

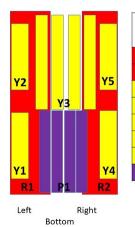
RET Hardware	CommRET v2
RET Interface	AISG1 8-pin DIN Female AISG1 8-pin DIN Male
RET Interface, quantity	2 female 2 male

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Input Voltage	10-30 Vdc
Internal RET	High band (2) Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2180 mm 85.827 in
Net Weight, antenna only	48 kg 105.822 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxR2
Y1	1427-2690	5-6	3	CPxxxxxxxxxxxxXXXXY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxXX2
Y3	2300-2690	9-16	5	CPxxxxxxxxxxxXXXXXXY3
Y4	1427-2690	17-18	6	CPxxxxxxxxxxxXXXXY4
Y5	1695-2690	19-20	7	CPxxxxxxxxxxxxXY5
P1	3300-3800	21-28	8	CPxxxxxxxxxxxxxxP1

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

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 2300 – 2690 MHz 3300 – 3800 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	2,200 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	790-896	890-960
Gain at Mid Tilt, dBi	14.9	15.3	15.5
Beamwidth, Horizontal, degrees	69	63	61
Beamwidth, Vertical, degrees	10.2	9.3	8.6
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	17	19	20
Front-to-Back Ratio at 180°, dB	31	29	29
Front-to-Back Total Power at 180° ± 30°, dB	21	21	23

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CPR at Boresight, dB	20	20	21
CPR at Sector, dB	11	10	12
Isolation, Cross Polarization, dB	28	28	28
Isolation, Inter-band, dB	28	28	28
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300

Electrical Specifications

Frequency Band, MHz	1427-1518	1695-1990	1920-2300	2300-2500	2490-2690
Gain at Mid Tilt, dBi	14.3	15.8	16.3	17	17
Beamwidth, Horizontal, degrees	82	69	68	63	63
Beamwidth, Vertical, degrees	10.1	8.2	7.2	6.3	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	18	17	17
Front-to-Back Ratio at 180°, dB	31	32	28	33	33
Front-to-Back Total Power at 180° ± 30°, dB	25	25	23	26	25
CPR at Boresight, dB	18	18	20	17	14
CPR at Sector, dB	9	7	4	6	-1
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, 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	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Electrical Specifications

Frequency Band, MHz	1695-1990	1920-2300	2300-2500	2490-2690
Gain at Mid Tilt, dBi	14.3	15.4	16.5	16.5
Beamwidth, Horizontal, degrees	76	70	59	57
Beamwidth, Vertical, degrees	9.3	8.3	7.3	6.8

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Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	18	18
Front-to-Back Ratio at 180°, dB	32	31	31	30
Front-to-Back Total Power at 180° ± 30°, dB	23	24	26	23
CPR at Boresight, dB	16	19	22	18
CPR at Sector, dB	6	6	7	4
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
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	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Electrical Specifications

Frequency Band, MHz	2300-2500	2490-2690	3300-3600	3600-3800
Gain at Mid Tilt, dBi	14.9	14.9	15.5	15.7
Beamwidth, Horizontal, degrees	92	90	93	87
Beamwidth, Vertical, degrees	5.8	5.4	6.3	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	17	16
Front-to-Back Ratio at 180°, dB	32	30	30	30
Front-to-Back Total Power at 180° ± 30°, dB	22	22	23	23
Coupling level, Amp, Antenna port to Cal port, dB	-26	-26	-26	-26
Coupling level, max Amp Δ, Antenna port to Cal port, dB	±2	±2	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB	0.9	0.9	0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees	7	7	7	7
CPR at Boresight, dB	16	16	17	17
CPR at Sector, dB	12	8	9	б

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Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
Isolation, Co-polarization, dB	20	20	20	20
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	-140	-140	-140	-140
Input Power per Port at 50°C, maximum, watts	150	150	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300-2500	2490-2690	3300-3600	3600-3800
Gain, dBi	17.6	17.8	18.5	18.5
Beamwidth, Horizontal, degrees	65	65	65	65
Beamwidth, Vertical, degrees	5.9	5.5	6.4	6
Front-to-Back Total Power at 180° ± 30°, dB	26	26	27	27
USLS (First Lobe), dB	17	19	23	21

Electrical Specifications, Service Beam

Frequency Band, MHz	2300-2500	2490-2690	3300-3600	3600-3800
Steered 0° Gain, dBi	20.4	20.4	21	20.9
Steered 0° Beamwidth, Horizontal, degrees	26	25	25	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	30	31	31	29
Steered 0° Horizontal Sidelobe, dB	14	14	14	13
Steered 30° Gain, dBi	19.4	19.8	20	20.2
Steered 30° Beamwidth, Horizontal, degrees	30	27	29	25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28	29	28	28

Electrical Specifications, Soft Split

Frequency Band, MHz	2300-2500	2490-2690	3300-3600	3600-3800
Gain, dBi	19.3	19.4	19.9	20.3
Beamwidth, Horizontal, degrees	34	32	32	28

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Front-to-Back Total Power at 180° ± 30°, dB	29	30	27	28
Horizontal Sidelobe, dB	17	17	17	18
Mechanical Specifications				
Wind Loading @ Velocity, frontal		741.0 N @ 150 km/h (166.6 lbf @ 150 km/h)		
Wind Loading @ Velocity, lateral		194.0 N @ 150 km/h (43.6 lbf @ 150 km/h)		
Wind Loading @ Velocity, maximum		985.0 N @ 150 km/h (221.4 lbf @ 150 km/h)		
Wind Loading @ Velocity, rear		510.0 N @ 150 km/h (114.7 lbf @ 150 km/h)		
Wind Speed, maximum		241 km/h (150 mph)		

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	368 mm 14.488 in
Length, packed	2359 mm 92.874 in
Weight, gross	61.9 kg 136.466 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-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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