

14 Port Sector Antenna, 2x 698-896 MHz, 4x 1695-2360 MHz 45° HPBW, and 8x 3400-3550/3700-4000 MHz Beamformer, 3x RETs and 3x SBTs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One LB RET, one MB RET and one HB RET. Both mid bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 14

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male



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RET Interface, quantity 3 female | 3 male

Input Voltage 10-30 Vdc

Internal Bias Tee Cal Port | Port 1 | Port 3

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

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

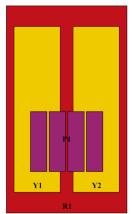
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1828 mm | 71.969 in

 Net Weight, antenna only
 32.6 kg | 71.871 lb

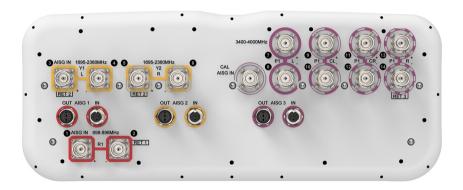
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	698-896	1 - 2	45°	1	AISG1	CPxxxxxxxxxxxxxR1
Y1	1695-2360	3 - 4	45°	_	AISG2	CPxxxxxxxxxxxxxY1
Y2	1695-2360	5 - 6	45°	2	AISGZ	CPXXXXXXXXXXXXXX
P1	3400-4000	7 - 14	BF°	3	AISG3	CPxxxxxxxxxxxxxxP1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 3400 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,040 W @ 50 °C

Electrical Specifications

	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1	P1
Frequency Band, MHz	698-806	806-896	1695-1880	0 1850-1990	1920-2200	2300-2360	3400-3550	3700-4000
RF Port	1,2	1,2	3-6	3-6	3-6	3-6	7-14	7-14
Gain, dBi	16.9	17.3	18.9	19.3	20.2	20.4	16	17.5
Beamwidth, Horizontal, degrees	46	40	48	46	43	39	83	69
Beamwidth, Vertical, degrees	12.3	10.9	5.7	5.3	5	4.7	6.2	5.7
Beam Tilt, degrees	2-14	2-14	0-8	0-8	0-8	0-8	0-10	0-10
USLS (First Lobe), dB	19	16	17	18	19	21	14	14
Front-to-Back Ratio at 180°,	33	34	34	37	36	36	29	31

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Coupling level, Amp, Antenna port to Cal port, dB							26	26
Coupling level, max Amp Δ, Antenna port to Cal port, dB							±2	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB							0.9	0.9
Coupler, max Phase Δ , Antenna port to Cal port, degrees							7	7
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							19	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	250	75	75
Electrical Specificati	Electrical Specifications, Broadcast 65°							
Frequency Band, MHz							3400-35	50 3700-4000
Gain, dBi							17.1	18.5
Beamwidth, Horizontal, degrees							65	65
Beamwidth, Vertical, degrees							6.2	5.7
Front-to-Back Total Power at 180° ± 30°, dB							25	26
USLS (First Lobe), dB							16	18
Electrical Specifications, Broadcast 45°								
Frequency Band, MHz							3400-35	50 3700-4000
Beamwidth, Vertical, degrees							6.2	5.7
Front-to-Back Total Power at 180° ± 30°, dB							26	27
USLS (First Lobe), dB							16	18
Electrical Specificati	ions, Se	rvice Be	eam					
Frequency Band, MHz							3400-35	50 3700-4000
Steered 0° Gain, dBi							20.4	21.7
Steered 0° Beamwidth,							27	22



Horizontal, degrees		
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29	29
Steered 0° Horizontal Sidelobe, dB	13	13
Steered 0° USLS (First Lobe), dB	17	18
Steered 30° Gain, dBi	19.5	19.9
Steered 30° Beamwidth, Horizontal, degrees	30	30
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28	28

Electrical Specifications, Soft Split

Frequency Band, MHz	3400-35	50 3700-4000
Gain, dBi	19.3	20.2
Beamwidth, Horizontal, degrees	35	32
Front-to-Back Total Power at 180° ± 30°, dB	27	29
Horizontal Sidelobe, dB	14	16
USLS (First Lobe), dB	17	18

Mechanical Specifications

Wind Loading @ Velocity, frontal	622.0 N @ 150 km/h (139.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	428.0 N @ 150 km/h (96.2 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	2015 mm 79.331 in
Weight, gross	46.1 kg 101.633 lb

Regulatory Compliance/Certifications

Agency Classification

ANDREW®
an Amphenol company

CHINA-ROHS Above maximum concentration value

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.

* 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

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

ROHS Compliant UK-ROHS Compliant



