

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 and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO

This product will be discontinued on: December 31, 2025

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity 1

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

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 (Single RET)

Dimensions

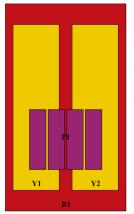
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 2437 mm | 95.945 in

 Net Weight, antenna only
 44.5 kg | 98.106 lb

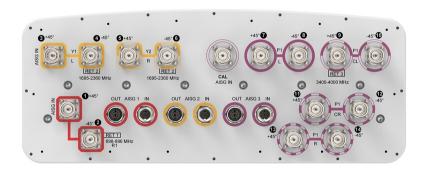
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	698-896	1 - 2	45°	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1695-2360	3 - 4	45°	2	AISG2	CDV1
Y2	1695-2360	5 - 6	45°	2	AISG2	CPxxxxxxxxxxxxxY1
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	0 1920-220	0 2300-2360	3400-355	0 3700-4000
RF Port	1,2	1,2	3-6	3-6	3-6	3-6	7-14	7-14
Gain, dBi	18	18.6	19.2	19.7	20.1	20.5	15.7	15.9
Beamwidth, Horizontal, degrees	45	40	44	43	42	39	92	87
Beamwidth, Vertical, degrees	9.7	8.7	5.9	5.5	5.2	4.7	6.5	6.2
Beam Tilt, degrees	0-10	0-10	0-8	0-8	0-8	0-8	0-10	0-10
USLS (First Lobe), dB	20	16	21	22	23	26	19	16
Front-to-Back Ratio at 180°, dB	31	35	36	36	34	35	27	27

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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	28	28	28	28	28	28	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	50	50
Electrical Specificat	ions, Br	oadcast	: 65°					
Frequency Band, MHz							3400-35	50 3700-4000
Gain, dBi							17.8	18.7
Beamwidth, Horizontal, degrees							65	65
Beamwidth, Vertical, degrees							6.6	6.3
Front-to-Back Total Power at 180° ± 30°, dB							24	26
USLS (First Lobe), dB							21	19
Electrical Specificat	ions, Br	oadcast	: 45°					
Frequency Band, MHz							3400-35	50 3700-4000
Beamwidth, Vertical, degrees							6.6	6.3
Front-to-Back Total Power at 180° ± 30°, dB							25	25
USLS (First Lobe), dB							20	18
Electrical Specifications, Service Beam								
Frequency Band, MHz 34						3400-35	50 3700-4000	
Steered 0° Gain, dBi							20.8	21.2
Steered 0° Beamwidth,							25	25

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Horizontal, degrees		
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29	29
Steered 0° Horizontal Sidelobe, dB	15	14
Steered 0° USLS (First Lobe), dB	23	21
Steered 30° Gain, dBi	19.7	20.7
Steered 30° Beamwidth, Horizontal, degrees	31	25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	26	27

Electrical Specifications, Soft Split

Frequency Band, MHz		3400-3550 3700-4000		
Gain, dBi	20.1	20.6		
Front-to-Back Total Power at 180° ± 30°, dB	27	28		
Horizontal Sidelobe, dB	17			
USLS (First Lobe), dB	23	21		

Mechanical Specifications

Wind Loading @ Velocity, frontal	1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	315.0 N @ 150 km/h (70.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,485.0 N @ 150 km/h (333.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,304.0 N @ 150 km/h (293.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	526 mm 20.709 in
Depth, packed	283 mm 11.142 in
Length, packed	2604 mm 102.52 ir
Weight, gross	63.5 kg 139.993 lb

Regulatory Compliance/Certifications

Agency	Classification
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CHINA-ROHS Above maximum concentration value

COMMSCOPE®

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.

BSAMNT-M – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor 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

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

Agency	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







BSAMNT-M



Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net4.5 kg | 9.921 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



COMMSC PE°