

8-port multibeam antenna, 8x 1695–2690 MHz, 4x 33° HPBW, 4x RET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs 3 antennas required for 6 sector configurations
- Utilizes RET-PMOD-A20-4A08

General Specifications

Antenna Type Multibeam

Band Single band

Color Light Gray (RAL 7035)

Grounding Type RF 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 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 0
RF Connector Quantity, low band 0
RF Connector Quantity, total 8

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain

out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC

10~30V, Pin7: DC_ Return

RET Interface, quantity 1 female | 1 male

Internal RET High band (4)

Power Consumption, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)



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Dimensions

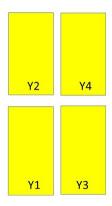
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 2499 mm | 98.386 in

 Net Weight, without mounting kit
 30.5 kg | 67.241 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	1695-2690	1-2	1	CPxxxxxxxxxxxxXY1
Y2	1695-2690	3-4	2	CPxxxxxxxxxxxxY2
Y3	1695-2690	5-6	3	CPxxxxxxxxxxxxXY3
Y4	1695-2690	7-8	4	CPxxxxxxxxxxxx4

Bottom

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 1,200 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain, dBi	19.2	19.4	19.7	19.9	20.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	38	38	37	34	31
Beamwidth, Vertical, degrees	7.8	7.4	7	6.2	5.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	18	23	23
Front-to-Back Ratio at 180°, dB	32	37	37	37	36
Isolation, Cross Polarization, dB	30	30	30	30	30



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Isolation, Inter-band, dB	30	30	30	30	30
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	200	200	200	200	200

Mechanical Specifications

Effective Projective Area (EPA), frontal $0.49 \text{ m}^2 \mid 5.274 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.36 \text{ m}^2 \mid 3.875 \text{ ft}^2$

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 525.0 N @ 150 km/h (118.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 386.0 N @ 150 km/h (86.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 898.0 N @ 150 km/h (201.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 540.0 N @ 150 km/h (121.4 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 505 mm | 19.882 in

 Depth, packed
 386 mm | 15.197 in

 Length, packed
 2631 mm | 103.583 in

 Weight, gross
 44.5 kg | 98.106 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

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

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

AgencyClassificationCECompliant with the relevant CE product directivesCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.andrew.com/ProductComplianceROHSCompliantUK-ROHSCompliant



