

24-port sector antenna, 4x 694–960 and 4x 1695-2690 MHz 65° HPBW, 8x 2300–2690 and 8x 3300-3800MHz, 90° HPBW, 6x RET

- Antenna Includes 1x 4-Column Array for 2300–2690MHz and a separate 1x 4-Column Array for 3300-3800MHz that support 8T8R beamforming operation. Column spacing optimized for Soft Split Beamforming
- Cluster connectors are used for beamforming 4-column arrays with separate calibration port for each band. Six Internal RET's provide independent electrical tilt control for each array
- Antenna includes 2x Single Column X-Pol Arrays for 694-960MHz and 2x Single Column X-Pol Arrays for 1695-2690MHz, suitable for 4x MIMO applications

General Specifications

Antenna Type Sector

Band Multiband

Calibration Connector Interface M-LOC

Calibration Connector Quantity 2

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator Material Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female | M-LOC

RF Connector Location

RF Connector Quantity, high band

RF Connector Quantity, mid band

RF Connector Quantity, low band

RF Connector Quantity, total

Bottom

20

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Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 2 female | 2 male

ANDREW®
an Amphenol company

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

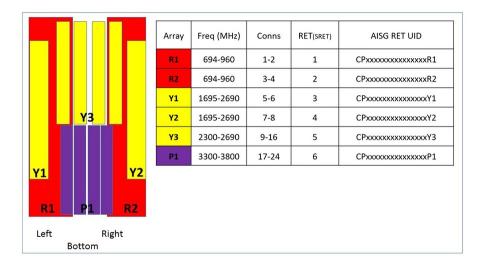
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 56.8 kg | 125.222 lb

Array Layout



Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 2300 – 2690 MHz | 3300 – 3800 MHz | 694 –

960 MHz

Polarization ±45°

Total Input Power, maximum 1,600 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	Y1-Y2	Y1-Y2	Y3	P1
Frequency Band, MHz	694-790	790-890	890-960	1695-2200	2300-2690	2300-2690	3300-3800
Gain, dBi	15.8	16.1	16.5	18.3	19.2	16	15.9
Beamwidth, Horizontal, degrees	71	65	62	70	60	93	88
Beamwidth, Vertical, degrees	8.9	8	7.3	5.1	4.2	4.9	6.6
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	18	21	14	19	18	16
Front-to-Back Ratio at 180°, dB	32	30	29	33	32	32	29
Coupling level, Amp, Antenna port to Cal port, dB						26	26



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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	9
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25
Isolation, Inter-band, dB	28	28	28	25	25	20	20
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-145
nput Power per Port at 50°C, maximum, watts	300	300	300	250	200	150	75
Electrical Specificati	ions, Br	oadcast 6	55°				
Frequency Band, MHz						2300-2690	3300-3800
Gain, dBi						17.5	16.6
Beamwidth, Horizontal, degrees						59	58
Beamwidth, Vertical, degrees						4.9	6.6
JSLS (First Lobe), dB						19	16
Electrical Specificati	ions, Se	rvice Bea	am				
Frequency Band, MHz						2300-2690	3300-3800
Steered 0° Gain, dBi						20.9	20.5
Steered 0° Beamwidth, Horizontal, degrees						26	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB						32	29
Steered 0° Horizontal Sidelobe, dB						12	13
Steered 30° Gain, dBi						20.4	19.8
Steered 30° Beamwidth, Horizontal, degrees						28	27
Electrical Specificati	ions, So	ft Split					
Frequency Band, MHz						2300-2690	3300-3800
Gain, dBi						20.2	19.7

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Beamwidth, Horizontal,

degrees

Front-to-Back Total Power at 33 29
180° ± 30°, dB

Horizontal Sidelobe, dB 19 15

Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 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
 2935 mm | 115.551 in

 Weight, gross
 77.8 kg | 171.519 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.

BSAMNT-M4 – 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 NoteSevere environmental conditions may degrade optimum performance



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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 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



BSAMNT-M4



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, net4.6 kg | 10.141 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



