

1. 16-port, sector antenna, RF port assignments are as follows: R1+R2 = 694–960, Y2+Y4 = 1695-2690MHz, B1+B2 = 1695–2180 and Y1+Y3 = 2490-2690 MHz, 65° horizontal beamwidth, 6x Internal RET. B1+B2 and Y1+Y3 share common RET, 2.7m

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- A common electrical tilt setting is shared by RF Ports B1+B2 and Y1+Y3
- Electrical tilt settings applicable to RF Ports R1, R2, Y2, Y4 can be set independently (See Array Layout and RET Table below)

OBSOLETE

This product was discontinued on: March 31, 2023 Replaced By:

RRZZHHTT-65D-R6

16-port, sector antenna, RF port assignments are as follows: R1+R2 = 694-960, Y2+Y4 = 1427-2690 MHz, B1+B2 = 1695-2180 and Y1+Y3 = 2490-2690 MHz, 65° horizontal beamwidth, 6x Internal RET. B1+B2 and Y1+Y3 share common RET, 2.7m

General Specifications

Antenna Type Sector

Band Multiband

Grounding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 12
RF Connector Quantity, low band 4

RF Connector Quantity, total 16

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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

Input Voltage 10-30 Vdc

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

Power Consumption, idle state, maximum $1~\mathrm{W}$ Power Consumption, normal conditions, maximum $8~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

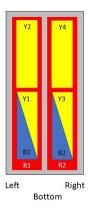
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2688 mm | 105.827 in

Array Layout

Net Weight, without mounting kit



	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxR1
I	R2	694-960	3-4	2	CPxxxxxxxxxxxxxxR2
	B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxB1
	B2	1695-2180	7-8	3	CPXXXXXXXXXXXXXXX
	Y1	2490-2690	9-10	4	CPxxxxxxxxxxxxxY1
	Y3	2490-2690	13-14	4	CPXXXXXXXXXXXXXXX
	Y2	1695-2690	11-12	5	CPxxxxxxxxxxxxxxXY2
	Y4	1695-2690	15-16	6	CPxxxxxxxxxxxxxXY3

53.2 kg | 117.286 lb

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2180 MHz | 1695 – 2690 MHz | 2490 – 2690 MHz | 694 –

960 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	B1-B2	B1-B2	Y1&Y3	Y2&Y4	Y2&Y4
Frequency Band, MHz	694-862	880-960	1920-2180	1695-1880	2490-2690	1695-2180	2300-2690
Gain, dBi	16.2	16.7	17.3	16.8	16.9	17	17.4
Beamwidth, Horizontal, degrees	68	61	60	58	68	59	62
Beamwidth, Vertical, degrees	8.1	7	6.8	7.6	5.7	7.4	5.6
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	20	20	18	17	15	17
Front-to-Back Ratio at 180°, dB	31	32	36	35	32	38	33
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28



Isolation, Inter-band, dB	30	30	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	150	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-862	880-960	1920-2180	1695-1880	2490-2690	1695-2180	2300-2690
Gain by all Beam Tilts, average, dBi	15.8	16.4	17	16.4	16.4	16.3	16.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.4	±0.6	±0.6	±0.8	±0.7
Gain by Beam Tilt, average, dBi	2° 15.8 7° 15.9 12° 15.5	2° 16.5 7° 16.6 12° 16.0	2° 16.6 7° 17.1 12° 17.0	2° 16.2 7° 16.5 12° 16.4	2° 16.1 7° 16.6 12° 16.2	2° 16.3 7° 16.5 12° 16.0	2° 16.8 7° 17.2 12° 16.4
Beamwidth, Horizontal Tolerance, degrees	±3.5	±5.1	±2.9	±4.1	±5.4	±5	±7.8
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.4	±0.6	±0.4	±0.3	±0.9	±0.6
USLS, beampeak to 20° above beampeak, dB	15	16	17	14	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	23	29	30	25	30	27
CPR at Boresight, dB	24	24	21	18	16	20	19
CPR at Sector, dB	7	9	8	10	6	7	6

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
 608 mm | 23.937 in

 Depth, packed
 352 mm | 13.858 in

 Length, packed
 2880 mm | 113.386 in

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Weight, gross 75 kg | 165.346 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 Note Severe 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

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliant





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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



