

12-port sector/multibeam antenna, 4x 694–960 MHz 65° HPBW and 8x 1695–2400 MHz 4x 33°HPBW, 6x RET with tilt indicators

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

RR2VV-6533D-R6 12-port sector/multibeam antenna, 4x 698-960 MHz 65° HPBW and 8x 1710-2690 MHz 4x 33°

HPBW, 6x RET

General Specifications

Antenna Type Multibeam

Band Multiband

Grounding TypeRF 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 Material Fiberglass, UV resistant

Radiator Material Copper | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band

RF Connector Quantity, low band 4

RF Connector Quantity, total 12

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

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Power Consumption, normal conditions, maximum

Input Voltage 10-30 Vdc

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

Power Consumption, idle state, maximum 1 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 54 kg | 119.049 lb

Array Layout



Array	Freq(MHz)	Conns	RET (SRET)	AISG RET UID	
R1	694-960	1-2	1	CPXXXXXXXXXXXXXXXXI	
R2	694-960	3-4	2	CPXXXXXXXXXXXXXXXXX	
Y1	1695 – 2400	5-6	3	CPXXXXXXXXXXXXXXXY1	
Y2	1695 – 2400	7-8	4	CPXXXXXXXXXXXXXXXY2	
Y3	1695 – 2400	9-10	5	СРХХХХХХХХХХХХХХХХ	
Y4	1695 – 2400	11-12	6	CPXXXXXXXXXXXXXXXY4	

8 W

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 700 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698-806	806-896	880-960	1695-1880	1850-1990	1920-2180	2300-2400
Gain, dBi	15.7	16	16.4	17.9	18.7	19.3	19.2
Beam Centers, Horizontal, degrees				±27	±27	±27	±27
Beamwidth, Horizontal, degrees	67	64	61	32	31	30	30
Beamwidth, Vertical, degrees	8.8	7.8	7.4	7.3	6.9	6.5	5.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	19	17	17	18	22
Front-to-Back Ratio at 180°, dB	32	31	31	35	35	36	34
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25

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Isolation, Inter-band, dB	30	30	30	30	30	30	30
Isolation, Beam to Beam, dB				17	17	17	17
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	300	150	150	150	150

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	880-960	1695-1880	1850-1990	1920-2180	2300-2400
Gain by all Beam Tilts, average, dBi	15.4	15.8	16	17.2	18.2	18.7	18.5
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±1.3	±0.6	±0.8	±1.6
Gain by Beam Tilt, average, dBi	2° 15.3 7° 15.5 12° 15.3	2° 15.7 7° 15.9 12° 15.7	2° 15.8 7° 16.1 12° 15.9	2° 17.0 7° 17.3 12° 16.9	2° 18.0 7° 18.3 12° 17.9	2° 18.5 7° 18.9 12° 18.4	2° 18.5 7° 18.8 12° 18.1
Beamwidth, Horizontal Tolerance, degrees	±6	±4.7	±3.4	±2.4	±1.2	±1.6	±1.4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.5	±0.4	±0.3	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	17	16	17	15	16	16	13
Front-to-Back Total Power at 180° ± 30°, dB	21	22	22	29	30	30	29
CPR at Boresight, dB	19	18	18	16	16	18	13
CPR at Sector, dB	11	8	11				
CPR at 10 dB Horizontal Beamwidth, dB				4	7	8	9

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 241.4 km/h (150 mph)

Packaging and Weights

Width, packed 565 mm | 22.244 in

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 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 75 kg | 165.347 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 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



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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

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





