

# RRVV3VV-6520B-R7



20-port sector/multibeam antenna, 4x 694–960 MHz 2x 65° HPBW, 4x 1695–2690 MHz 2x 65° HPBW and 12x 1695–2690 MHz 6x 20° HPBW, 7x RET

- 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 and consolidate tri-beams configuration and standard 3 sectors in low and middle band on same antenna platform
- Support 4T4R configuration in tri-beams 20° HPBW and also in low band, middle band 3 sectors 65° HPBW

## General Specifications

<b>Antenna Type</b>	Multibeam
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	16
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	20

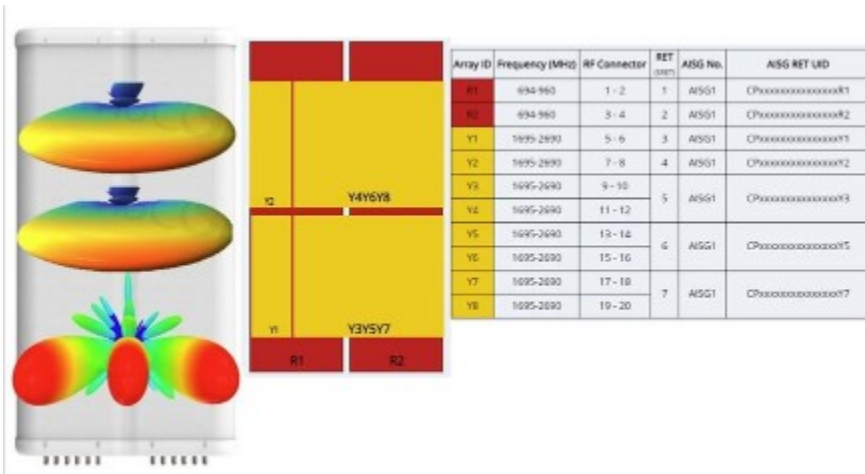
## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (2)   Mid band (5)
<b>Power Consumption, active state, maximum</b>	8 W

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<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)
<b>Dimensions</b>	
<b>Width</b>	640 mm   25.197 in
<b>Depth</b>	235 mm   9.252 in
<b>Length</b>	2100 mm   82.677 in
<b>Net Weight, without mounting kit</b>	67.4 kg   148.591 lb

## Array Layout



## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,400 W

## Electrical Specifications

	<b>R1-R2</b>	<b>R1-R2</b>	<b>R1-R2</b>	<b>Y1-Y2</b>	<b>Y1-Y2</b>	<b>Y3-Y8</b>	<b>Y3-Y8</b>
<b>Frequency Band, MHz</b>	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>	<b>1695–2180</b>	<b>2300–2690</b>	<b>1695–2180</b>	<b>2300–2690</b>
<b>RF Port</b>	1-4	1-4	1-4	5-8	5-8	9-20	9-20
<b>Gain, dBi</b>	15.6	16	15.7	16.5	17.3	19.6	20.6
<b>Beam Centers, Horizontal, degrees</b>						±0 ±35	±0 ±35
<b>Beamwidth, Horizontal, degrees</b>	69	60	69	68	59	21	17
<b>Beamwidth, Vertical, degrees</b>	11.1	9.9	8.8	8.2	6.5	8.2	6.5
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–10	2–10
<b>USLS (First Lobe), dB</b>	16	15	15	15	15	15	15
<b>Front-to-Back Ratio at 180°, dB</b>	34	32	24	32	29	32	29

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<b>CPR at Boresight, dB</b>	23	26	16	24	17	16	14
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Beam to Beam, dB</b>						16	17
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	250	250	250	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	834.0 N @ 150 km/h (187.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	243.0 N @ 150 km/h (54.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	1,063.0 N @ 150 km/h (239.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	521.0 N @ 150 km/h (117.1 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	752 mm   29.606 in
<b>Depth, packed</b>	387 mm   15.236 in
<b>Length, packed</b>	2254 mm   88.74 in
<b>Weight, gross</b>	87.6 kg   193.125 lb

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

## 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

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 6.5 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
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

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 4.6 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

