

# MB12P4L8M6533B6-V2



12-port sector/multibeam antenna, 4x 698–960 MHz 65° HPBW and 8x 1710–2690 MHz 33°HPBW, 6x RET

- Antenna with tilt scale indicators and integrated pluggable RET
- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

## 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>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## Remote Electrical Tilt (RET) Information

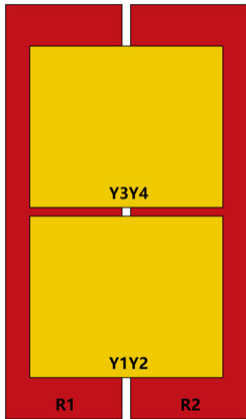
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (2)   Mid band (4)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

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## Dimensions

<b>Width</b>	499 mm   19.646 in
<b>Depth</b>	199 mm   7.835 in
<b>Length</b>	2090 mm   82.284 in
<b>Net Weight, antenna only</b>	28.3 kg   62.391 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	698-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	33°	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	33°	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	33°	5	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	33°	6	AISG1	CPxxxxxxxxxxxxxxxxY4

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

## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2690 MHz   698 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W

## Electrical Specifications

	<b>R1,R2</b>	<b>R1,R2</b>	<b>R1,R2</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>	<b>Y1-Y4</b>
<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>790–894</b>	<b>880–960</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2170</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>RF Port</b>	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
<b>Gain, dBi</b>	15	15.6	16.1	17.7	18.5	18.9	18.2	18.7
<b>Beam Centers, Horizontal, degrees</b>				±27	±27	±27	±27	±27
<b>Beamwidth, Horizontal, degrees</b>	67	60	55	34	31	29	27	25
<b>Beamwidth, Vertical, degrees</b>	10.9	9.6	9	9.8	9.3	9	8	7.5
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	15	16	17	16	18	19	22	22

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<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	27	25	25	31	33	35	31	30
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Beam to Beam, dB</b>				15	15	15	15	15
<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	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	300	300	300	200	200	200	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	698–806	790–894	880–960	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
<b>Gain by all Beam Tilts, average, dBi</b>	14.6	15.2	15.6	17.2	17.9	18.3	17.8	18.1
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.5	±0.6	±0.6	±1	±0.7	±0.7	±0.8
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±7	±8	±8	±3	±4	±2	±3	±2
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.9	±0.8	±0.5	±0.5	±0.3	±0.5	±0.5	±0.4
<b>CPR at Boresight, dB</b>	20	20	23	19	20	19	18	20

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	568.0 N @ 150 km/h (127.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	273.0 N @ 150 km/h (61.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	657.0 N @ 150 km/h (147.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	593 mm   23.346 in
<b>Depth, packed</b>	317 mm   12.48 in
<b>Length, packed</b>	2290 mm   90.158 in
<b>Weight, gross</b>	39.8 kg   87.744 lb

## Regulatory Compliance/Certifications

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

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UK-ROHS

Compliant

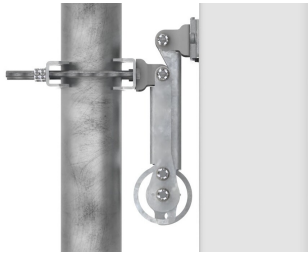
## Included Products

- BSAMNT-B95-04 – 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-B95-04



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** 4.5 kg | 9.921 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 2

## Regulatory Compliance/Certifications

### Agency

CE  
ISO 9001:2015

### Classification

Compliant with the relevant CE product directives  
Designed, manufactured and/or distributed under this quality management system

