

# MMM65A-M | MMM65A-3X2



6-port sector antenna, 6x 1710–2690 MHz, 65° HPBW, RET compatible

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- Excellent solution for site sharing and maximizing capacity
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- This series of single ultra wideband antennas features the new, innovative AccuRET® AISG compatible actuator fitted to the antenna's backside reducing the overall wind load

## OBSOLETE

This product was discontinued on: March 27, 2020

### Replaced By:

6P-6M-A3	6-port sector antenna, 6x 1695–2690 MHz, 65° HPBW, 3x RET
V3-65A-R3	
V3-65A-R3	6-port sector antenna, 6x 1695–2690 MHz, 65° HPBW, 3x RET with tilt scales

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<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>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	6
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

<b>Model with Factory Installed AISG 2.0 Actuator</b>	MMM65A-3X2
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## Dimensions

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<b>Width</b>	504 mm   19.843 in
<b>Depth</b>	118 mm   4.646 in
<b>Length</b>	1390 mm   54.724 in
<b>Net Weight, without mounting kit</b>	19.6 kg   43.211 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2690 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
<b>Gain, dBi</b>	17.6	17.7	18	18.1	18.5
<b>Beamwidth, Horizontal, degrees</b>	64.9	64.8	65	62.3	62.5
<b>Beamwidth, Vertical, degrees</b>	6.7	6.3	6	5.2	5
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	14	14	14	17	18
<b>Front-to-Back Ratio at 180°, dB</b>	24	25	26	29	27
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30
<b>Isolation, Inter-band, dB</b>	28	30	30	30	30
<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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	350	350	350	350	350

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
<b>Gain by all Beam Tilts, average, dBi</b>	17.1	17.3	17.7	18	18
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.4	±0.6	±0.3	±0.4
<b>Gain by Beam Tilt, average, dBi</b>	0° 17.0 5° 17.2 10° 17.1	0° 17.3 5° 17.4 10° 17.2	0° 17.7 5° 17.8 10° 17.5	0° 17.8 5° 18.1 10° 18.0	0° 18.0 5° 18.1 10° 17.7
<b>Beamwidth, Horizontal</b>	±4.0	±3.1	±3.8	±3.5	±5.1

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## Tolerance, degrees

<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.3	±0.3	±0.5	±0.2	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	15	16	19	20
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	23.1	23.7	24.3	24.5	23.3
<b>CPR at Boresight, dB</b>	16	17	16	18	19
<b>CPR at Sector, dB</b>	14	12	11	8	10

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	77.0 N @ 150 km/h (17.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	908.0 N @ 150 km/h (204.1 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	637 mm   25.079 in
<b>Depth, packed</b>	277 mm   10.906 in
<b>Length, packed</b>	1614 mm   63.543 in
<b>Weight, gross</b>	31.5 kg   69.446 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

BSAMNT-3	–	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.
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\* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance

# BSAMNT-3



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** 6.2 kg | 13.669 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.4 kg | 14.11 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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