

# HWXXX-6516DS-VTM | HWXXX-6516DS-A3M



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

## OBSOLETE

This product was discontinued on: March 30, 2024

## 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

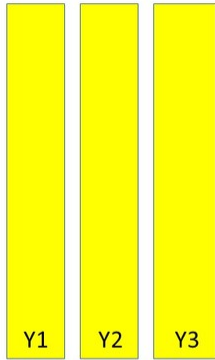
## Remote Electrical Tilt (RET) Information

<b>Model with Factory Installed AISG 2.0 Actuator</b>	HWXXX-6516DS-A3M
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## Dimensions

<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>	19.5 kg   42.99 lb

## Array Layout



Array	Freq (MHz)	Conns
Y1	1710-2690	1-2
Y2	1710-2690	3-4
Y3	1710-2690	5-6

Bottom

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

## 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	17.9	18.4	18.3
<b>Beamwidth, Horizontal, degrees</b>	61.6	63.2	64.4	61.5	60.8
<b>Beamwidth, Vertical, degrees</b>	7.3	6.8	6.4	5.3	5
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	15	17	17	13	14
<b>Front-to-Back Ratio at 180°, dB</b>	27	27	27	27	27
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28
<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>	-150	-150	-150	-150	-150
<b>Input Power per Port,</b>	350	350	350	300	300

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maximum, watts

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.2	17.3	17.6	17.9	17.9
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0°   17.0 5°   17.2 10°   17.2	0°   17.1 5°   17.3 10°   17.3	0°   17.5 5°   17.7 10°   17.7	0°   17.7 5°   17.9 10°   17.9	0°   17.7 5°   18.0 10°   17.8
Beamwidth, Horizontal Tolerance, degrees	±3.6	±2.9	±4.2	±3.9	±5.3
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	15	16	17	15	14
Front-to-Back Total Power at 180° ± 30°, dB	24	24	22.7	23.1	20.4
CPR at Boresight, dB	23	21	19	19	19
CPR at Sector, dB	13	10	9	8	14

## Mechanical Specifications

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

## Packaging and Weights

Width, packed	613 mm   24.134 in
Depth, packed	226 mm   8.898 in
Length, packed	1525 mm   60.039 in
Weight, gross	31.1 kg   68.564 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

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REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)



## 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.

## \* 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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