

# HBXXX-6516DS-VTM | HBXXX-6516DS-A3M



6-port sector antenna, 6x 1710–2180 MHz, 65° HPBW, RET compatible

- Excellent solution for site sharing and maximizing capacity
- Excellent front-to-back ratio, USLS, VSWR, and PIM specifications to enhance network quality
- Ideal solution for dense urban, suburban site applications
- Each antenna downtilt can be independently adjusted for greater flexibility in network optimization

## OBSOLETE

This product was discontinued on: **March 30, 2024**

### Replaced By:

6P-6M-A3  
V3-65A-R3

6-port sector antenna, 6x 1695–2690 MHz, 65° HPBW, 3x RET

## 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>	HBXXX-6516DS-A3M
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## Dimensions

<b>Width</b>	500 mm   19.685 in
<b>Depth</b>	90 mm   3.543 in

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<b>Length</b>	1309 mm   51.535 in
<b>Net Weight, without mounting kit</b>	15.3 kg   33.731 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
<b>Gain, dBi</b>	17.9	17.7	17.8
<b>Beamwidth, Horizontal, degrees</b>	64.1	63.4	62.3
<b>Beamwidth, Vertical, degrees</b>	7.8	7.4	7
<b>Beam Tilt, degrees</b>	2–10	2–10	2–10
<b>USLS (First Lobe), dB</b>	17	17	17
<b>Front-to-Back Ratio at 180°, dB</b>	32	35	35
<b>CPR at Boresight, dB</b>	23	26	24
<b>CPR at Sector, dB</b>	6.8	6.8	6
<b>Isolation, Cross Polarization, dB</b>	30	30	30
<b>VSWR   Return loss, dB</b>	1.4   15.6	1.4   15.6	1.4   15.6
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	300	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
<b>Gain by all Beam Tilts, average, dBi</b>	17.4	17.2	17.4
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.4	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	2°   17.4 6°   17.4 10°   17.2	2°   17.3 6°   17.3 10°   17.0	2°   17.6 6°   17.5 10°   17.1
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±4.0	±3.7	±4.5
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±0.4	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>	10	18	19
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	29.5	30.7	30.7
<b>CPR at Boresight, dB</b>	27	28	26
<b>CPR at Sector, dB</b>	7	7	7

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## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	802.0 N @ 150 km/h (180.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	111.0 N @ 150 km/h (25.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	860.0 N @ 150 km/h (193.3 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	663 mm   26.102 in
<b>Depth, packed</b>	278 mm   10.945 in
<b>Length, packed</b>	1782 mm   70.158 in
<b>Weight, gross</b>	18.6 kg   41.006 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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



## Included Products

600899A-2	-	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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# 600899A-2



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** 114.3 mm | 4.5 in

**Compatible Diameter, minimum** 61 mm | 2.402 in

**Weight, net** 3.9 kg | 8.598 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 4.2 kg | 9.259 lb

## Regulatory Compliance/Certifications

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600899A-2

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