

# HBXX-6513DS-VTM | HBXX-6513DS-A2M



4-port sector antenna, 4x 1710–2170 MHz, 65° HPBW, RET compatible

- Two DualPol® antennas under one radome
- Each antenna is independently capable of field adjustable electrical tilt
- Continuous wideband operation

## OBSOLETE

This product was discontinued on: March 31, 2023

## 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>	PVC, 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, high band</b>	4
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information

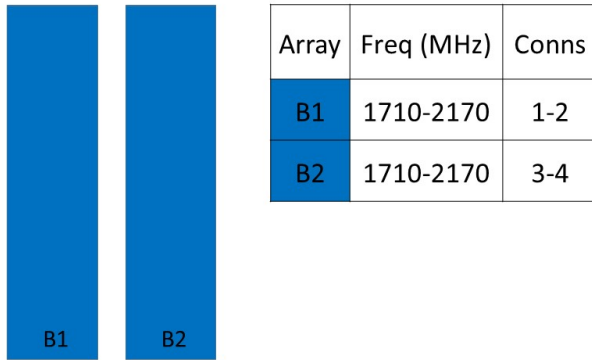
<b>Model with Factory Installed AISG 2.0 Actuator</b>	HBXX-6513DS-A2M
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## Dimensions

<b>Width</b>	305 mm   12.008 in
<b>Depth</b>	166 mm   6.535 in
<b>Length</b>	695 mm   27.362 in
<b>Net Weight, without mounting kit</b>	7.9 kg   17.416 lb

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## Array Layout



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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2170 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2170
<b>Gain, dBi</b>	14.5	14.6	14.9
<b>Beamwidth, Horizontal, degrees</b>	67.1	65.6	63.7
<b>Beamwidth, Vertical, degrees</b>	14.8	14	13.4
<b>Beam Tilt, degrees</b>	0–12	0–12	0–12
<b>USLS (First Lobe), dB</b>	15	15	15
<b>Front-to-Back Ratio at 180°, dB</b>	30	30	30
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	27	27
<b>CPR at Boresight, dB</b>	22	22	22
<b>CPR at Sector, dB</b>	7	8	8
<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>	350	350	350

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## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2170
Gain by all Beam Tilts, average, dBi	14.2	14.3	14.6
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.7	±0.7
Gain by Beam Tilt, average, dBi	0°   14.6 6°   14.4 12°   13.5	0°   14.7 6°   14.5 12°   13.7	0°   15.0 6°   14.7 12°   13.8
Beamwidth, Horizontal Tolerance, degrees	±3.7	±3.3	±3.5
Beamwidth, Vertical Tolerance, degrees	±1.4	±0.9	±1.1
USLS, beampeak to 20° above beampeak, dB	15	15	16
CPR at Boresight, dB	22	22	22
CPR at Sector, dB	7	8	8

## Mechanical Specifications

Wind Loading @ Velocity, frontal	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	53.0 N @ 150 km/h (11.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	259.0 N @ 150 km/h (58.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	485 mm   19.094 in
Depth, packed	349 mm   13.74 in
Length, packed	1253 mm   49.331 in
Weight, gross	17.9 kg   39.463 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



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## 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.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance