

# HBXX-9016DS-VTM



4-port sector antenna, 4x 1710–2180 MHz, 90° HPBW, RET compatible

- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Excellent solution for site sharing and maximizing capacity
- Wide horizontal and narrow vertical beamwidth to maximize coverage and capacity

## OBSOLETE

This product was discontinued on: March 31, 2022

## 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

## Dimensions

<b>Width</b>	305 mm   12.008 in
<b>Depth</b>	166 mm   6.535 in
<b>Length</b>	1896 mm   74.646 in
<b>Net Weight, without mounting kit</b>	16.9 kg   37.258 lb

## Electrical Specifications

<b>Electrical Safety Standard</b>	CB   CE
<b>Impedance</b>	50 ohm

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

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>
<b>Gain, dBi</b>	17.5	17.5	17.5
<b>Beamwidth, Horizontal, degrees</b>	90	88.3	87
<b>Beamwidth, Vertical, degrees</b>	5	4.7	4.5
<b>Beam Tilt, degrees</b>	0–6	0–6	0–6
<b>USLS (First Lobe), dB</b>	18	19	19
<b>Front-to-Back Ratio at 180°, dB</b>	28	28	28
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	21	21
<b>CPR at Boresight, dB</b>	17	18	16
<b>CPR at Sector, dB</b>	7	8	7
<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

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>
<b>Gain by all Beam Tilts, average, dBi</b>	17	17	17.2
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.3	±0.4
<b>Gain by Beam Tilt, average, dBi</b>	0°   16.8 3°   17.1 6°   17.1	0°   16.9 3°   17.1 6°   16.9	0°   17.0 3°   17.3 6°   17.1
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±4.2	±3.6	±3
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.3	±0.2	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	19	20
<b>CPR at Boresight, dB</b>	17	18	17
<b>CPR at Sector, dB</b>	8	8	8

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	665.0 N @ 150 km/h (149.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	174.0 N @ 150 km/h (39.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	773.0 N @ 150 km/h (173.8 lbf @ 150 km/h)

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**Wind Speed, maximum** 241 km/h (150 mph)

## Packaging and Weights

**Width, packed** 409 mm | 16.102 in

**Depth, packed** 292 mm | 11.496 in

**Length, packed** 2212 mm | 87.087 in

**Weight, gross** 31.7 kg | 69.886 lb

## Regulatory Compliance/Certifications

### Agency

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

UK-ROHS

### Classification

Below maximum concentration value

Designed, manufactured and/or distributed under this quality management system

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

Compliant

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.

## \* Footnotes

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

# 600899A-2

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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

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

600899A-2

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