

# HWXX-6516DS1-VTM | HWXX-6516DS1-A2M

4-port sector antenna, 4x 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
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<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, General

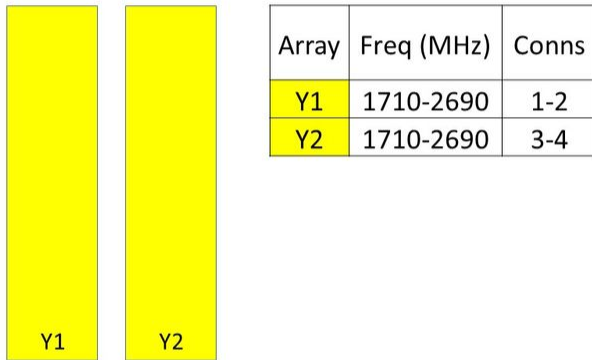
<b>Model with Factory Installed AISG 2.0 Actuator</b>	HWXX-6516DS1-A2M
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## Dimensions

<b>Width</b>	305 mm   12.008 in
<b>Length</b>	1390 mm   54.724 in
<b>Depth</b>	118 mm   4.646 in

## Array Layout

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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

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
<b>Gain, dBi</b>	17.4	17.6	17.9	18.6	18.6
<b>Beamwidth, Horizontal, degrees</b>	66	65	65	63	62
<b>Beamwidth, Vertical, degrees</b>	6.7	6.4	6.1	5.3	5.1
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	16	16	16	18	18
<b>Front-to-Back Ratio at 180°,</b>	27	30	30	29	29

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dB

Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	28	28	28	28	28
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350

## Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.2	17.4	17.8	18	18.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0°   17.0 5°   17.3 10°   17.1	0°   17.3 5°   17.4 10°   17.2	0°   17.8 5°   17.9 10°   17.6	0°   17.8 5°   18.1 10°   18.0	0°   18.3 5°   18.4 10°   17.9
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.7	±2.1	±2.1	±3
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	17	20	21
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26.5	27.4	25.9
CPR at Boresight, dB	16	17	16	19	17
CPR at Sector, dB	15	14	14	9	10

## Material Specifications

Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
Reflector Material	Aluminum

## Mechanical Specifications

Wind Loading at Velocity, frontal	115.1 lbf @ 150 km/h   512.0 N @ 150 km/h
Wind Loading at Velocity, lateral	120.0 N @ 150 km/h   27.0 lbf @ 150 km/h
Wind Speed, maximum	241 km/h   149.75 mph

## Packaging and Weights

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<b>Width, packed</b>	413 mm   16.26 in
<b>Depth, packed</b>	249 mm   9.803 in
<b>Length, packed</b>	1525 mm   60.039 in
<b>Net Weight, without mounting kit</b>	10.2 kg   22.487 lb
<b>Weight, gross</b>	18.5 kg   40.785 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



## 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.

## General Specifications

<b>Application</b>	Outdoor
<b>Color</b>	Silver

## Dimensions

<b>Compatible Diameter, maximum</b>	114.3 mm   4.5 in
<b>Compatible Diameter, minimum</b>	61 mm   2.402 in

## Material Specifications

<b>Material Type</b>	Galvanized steel
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## Packaging and Weights

<b>Included</b>	Brackets   Hardware
<b>Packaging quantity</b>	1

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