

# 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

This product will be 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>	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

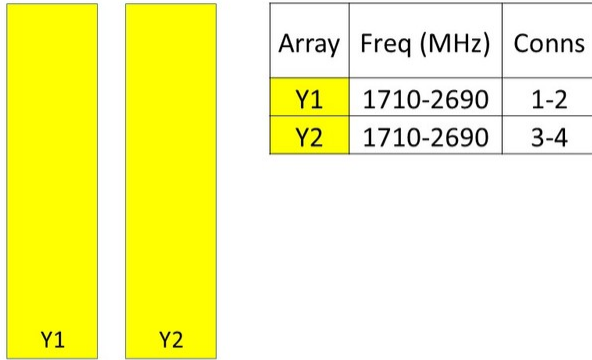
## Remote Electrical Tilt (RET) Information

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

<b>Width</b>	305 mm   12.008 in
<b>Depth</b>	118 mm   4.646 in
<b>Length</b>	1390 mm   54.724 in
<b>Net Weight, without mounting kit</b>	10.2 kg   22.487 lb

## Array Layout



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	1920–2170	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°, dB</b>	27	30	30	29	29
<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>	-153	-153	-153	-153	-153

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<b>Input Power per Port, maximum, watts</b>	350	350	350	350	350
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## Electrical Specifications, BASTA

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

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	512.0 N @ 150 km/h (115.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	120.0 N @ 150 km/h (27.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	560.0 N @ 150 km/h (125.9 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	413 mm   16.26 in
<b>Depth, packed</b>	249 mm   9.803 in
<b>Length, packed</b>	1702 mm   67.008 in
<b>Weight, gross</b>	20.7 kg   45.636 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value

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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.

## \* Footnotes

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