

# HWXX-6516DS1-VTMV2



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
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## OBSOLETE

This product was discontinued on: November 30, 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>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, mid band</b>	0
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	4

## 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>	9.8 kg   21.605 lb

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	450 W @ 50 °C

## Electrical Specifications

<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, dBi</b>	17.4	17.7	18	18.2	18.4
<b>Beamwidth, Horizontal, degrees</b>	66	65	65	62.5	62.1
<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	17	20	21
<b>Front-to-Back Ratio at 180°, dB</b>	29	31	31	31	32
<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>	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	300	300

## Mechanical Specifications

<b>Mechanical Tilt Range</b>	0°–19°
<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>	1525 mm   60.039 in

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**Weight, gross**

18 kg | 39.683 lb

## Regulatory Compliance/Certifications

**Agency**

**Classification**

CE	Compliant with the relevant CE product directives
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## 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

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