

# HWX-6516DS1-VTM



2-port sector antenna, 2x 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
- RF technology flexible—suitable for LTE, UMTS, CDMA, GSM, AWS, WiMAX, and other applications from 1.7–2.7 GHz
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment

## OBSOLETE

This product was discontinued on: March 31, 2023

## General Specifications

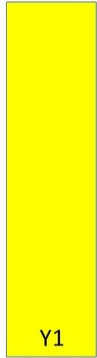
<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Quantity, mid band</b>	0
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	2

## Dimensions

<b>Width</b>	170 mm   6.693 in
<b>Depth</b>	105 mm   4.134 in
<b>Length</b>	1390 mm   54.724 in
<b>Net Weight, without mounting kit</b>	6 kg   13.228 lb

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## Array Layout



Array	Freq (MHz)	Conns
Y1	1710-2690	1-2

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>	17.3	17.4	18.2	18.4	18.7
<b>Beamwidth, Horizontal, degrees</b>	67.7	66	65	61.3	59.6
<b>Beamwidth, Vertical, degrees</b>	6.8	6.4	6.1	5.4	5
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	17	17	17	20	20
<b>Front-to-Back Ratio at 180°, dB</b>	30	30	30	32	29
<b>CPR at Boresight, dB</b>	17	19	20	21	17
<b>CPR at Sector, dB</b>	14	12	11	10	9
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30	30
<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

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<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	350	350	350	300	300

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	273.0 N @ 150 km/h (61.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	111.0 N @ 150 km/h (25.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	350.0 N @ 150 km/h (78.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	270 mm   10.63 in
<b>Depth, packed</b>	208 mm   8.189 in
<b>Length, packed</b>	1696 mm   66.772 in
<b>Weight, gross</b>	14.6 kg   32.187 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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



## Included Products

DB390	-	Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.
DB5098E	-	Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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