



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

Electrical Specifications

1710-1880	1850-1990	1920-2170	2300-2500	2500-2690
17.3	17.4	18.2	18.4	18.7
68	66	65	61	60
6.8	6.4	6.1	5.4	5.0
0-10	0-10	0-10	0-10	0-10
17	17	17	20	20
30	30	30	32	29
17	19	20	21	17
14	12	11	10	9
30	30	30	30	30
1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
-150	-150	-150	-150	-150
350	350	350	300	300
±45°	±45°	±45°	±45°	±45°
50 ohm	50 ohm	50 ohm	50 ohm	50 ohm
	17.3 68 6.8 0-10 17 30 17 14 30 1.5 14.0 -150 350 ±45°	17.3 17.4 68 66 6.8 6.4 0-10 0-10 17 17 30 30 17 19 14 12 30 30 1.5 14.0 1.5 14.0 -150 350 350 ±45° ±45°	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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	17.2	17.7	18.3	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.7	±0.2	±0.4
	0 ° 17.1	0 ° 17.2	0 ° 17.7	0 ° 18.1	0 ° 18.6
Gain by Beam Tilt, average, dBi	5 ° 17.2	5 ° 17.3	5 ° 17.8	5° 18.4	5 ° 18.7
	10 ° 16.9	10 ° 16.9	10 ° 17.4	10 ° 18.1	10 ° 18.1
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.3	±1.9	±2.2	±1.9
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2	±0.4	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	17	17	21	20
Front-to-Back Total Power at 180° ± 30°, dB	27	27	27	28	26
CPR at Boresight, dB	17	19	20	21	17
CPR at Sector, dB	14	12	11	10	9

^{*} CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

General Specifications

Operating Frequency Band 1710 – 2690 MHz

Antenna Type Sector
Band Single band
Performance Note Outdoor usage



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Mechanical Specifications

RF Connector Quantity, total 2 RF Connector Quantity, high band 2

RF Connector Interface 7-16 DIN Female

Color Light gray

Grounding Type RF connector inner conductor and body grounded to reflector and mounting bracket

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

RF Connector Location Bottom

Wind Loading, frontal 273.0 N @ 150 km/h

61.4 lbf @ 150 km/h

Wind Loading, lateral 111.0 N @ 150 km/h

25.0 lbf @ 150 km/h

Wind Loading, rear $350.0 \text{ N} \otimes 150 \text{ km/h}$

78.7 lbf @ 150 km/h

Wind Speed, maximum 241 km/h | 150 mph

Dimensions

 Length
 1390.0 mm | 54.7 in

 Width
 170.0 mm | 6.7 in

 Depth
 105.0 mm | 4.1 in

 Net Weight, without mounting kit
 6.0 kg | 13.2 lb

Packed Dimensions

 Length
 1696.0 mm | 66.8 in

 Width
 270.0 mm | 10.6 in

 Depth
 208.0 mm | 8.2 in

 Shipping Weight
 14.6 kg | 32.2 lb

Regulatory Compliance/Certifications

Agency

Classification

RoHS 2011/65/EU

Compliant by Exemption

China RoHS SJ/T 11364-2006

Above Maximum Concentration Value (MCV)

ISO 9001:2008

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





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



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* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance





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.

General Specifications

Mount Type Pipe mounts
Application Outdoor

Includes Brackets | Hardware

Package Quantity 1

Mechanical Specifications

Color Silver

Material Type Galvanized steel

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in Compatible Diameter, minimum 61.0 mm | 2.4 in Net Weight 2.0 kg | 4.4 lb

Regulatory Compliance/Certifications

Agency

Classification

RoHS 2011/65/EU

Compliant by Exemption

China RoHS SJ/T 11364-2006

Above Maximum Concentration Value (MCV)

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system









DB5098E

Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

General Specifications

Application Outdoor

Includes Brackets | Hardware

Package Quantity

Mechanical Specifications

Color

Galvanized steel Material Type

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in Compatible Diameter, minimum 61.0 mm | 2.4 in Net Weight 1.2 kg | 2.6 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant by Exemption

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