



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
- Width of 2 pieces of HWXX-6516DS1 placed side by side is 610 mm, strapping them leads to a total width of 628 mm (end to end)

Electrical Specifications

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Frequency Band, MHz	1710-1880	1850-1990	1920-2170	2300-2500	2500-2690
Gain, dBi	17.4	17.6	17.9	18.6	18.6
Beamwidth, Horizontal, degrees	66	65	65	63	62
Beamwidth, Vertical, degrees	6.7	6.4	6.1	5.3	5.1
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	16	16	16	18	18
Front-to-Back Ratio at 180°, dB	27	30	30	29	29
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, 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	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350	350	350
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm				

Electrical Specifications, BASTA*

Frequency Band, MHz	1710-1880	1850-1990	1920-2170	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi Gain by all Beam Tilts Tolerance, dB	17.2 ±0.3	17.4 ±0.4	17.8 ±0.5	18.0 ±0.3	18.3 ±0.3
dani by an Beam Tito Folerance, ab	0 ° 17.0	0 ° 17.3	0 ° 17.8	0 ° 17.8	0 ° 18.3
Gain by Beam Tilt, average, dBi	5 ° 17.3	5 ° 17.4	5 ° 17.9	5 ° 18.1	5 ° 18.4
	10 ° 17.1	10 ° 17.2	10 ° 17.6	10 ° 18.0	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	27	27	26
CPR at Boresight, dB	16	17	16	19	17
CPR at Sector, dB	15	14	14	9	10

^{*} 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 4
RF Connector Quantity, high band 4

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

Reflector Material Aluminum RF Connector Location Bottom

Wind Loading, frontal 512.0 N @ 150 km/h 115.1 lbf @ 150 km/h

Wind Loading, lateral 120.0 N @ 150 km/h 27.0 lbf @ 150 km/h Wind Loading, rear 560.0 N @ 150 km/h

125.9 lbf @ 150 km/h

Wind Speed, maximum 241 km/h | 150 mph

Dimensions

 Length
 1390.0 mm | 54.7 in

 Width
 305.0 mm | 12.0 in

 Depth
 118.0 mm | 4.6 in

 Net Weight, without mounting kit
 10.2 kg | 22.5 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HWXX-6516DS1-A2M

Packed Dimensions

 Length
 1525.0 mm | 60.0 in

 Width
 413.0 mm | 16.3 in

 Depth
 249.0 mm | 9.8 in

 Shipping Weight
 18.5 kg | 40.8 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



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

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

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

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 3.9 kg | 8.5 lb

Regulatory Compliance/Certifications

Agency

Classification Compliant by Exemption

RoHS 2011/65/EU China RoHS SJ/T 11364-2006

Above Maximum Concentration Value (MCV)

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

RallS

