

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

Antenna Type	Sector
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	PVC, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, total	4

Dimensions

Width	305 mm 12.008 in
Depth	118 mm 4.646 in
Length	1390 mm 54.724 in
Net Weight, without mounting kit	9.8 kg 21.605 lb

Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2170	2300–2500	2500–2690
Gain, dBi	17.4	17.7	18	18.2	18.4
Beamwidth, Horizontal, degrees	66	65	65	62.5	62.1
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	17	20	21
Front-to-Back Ratio at 180°, dB	29	31	31	31	32
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, 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 at 50°C, maximum, watts	300	300	300	300	300

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	17.4	17.8	18	18.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.3	±0.3
Gain by Beam Tilt, average, dBi	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
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	17	17	20	18
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26.5	27.4	25.9

HWXX-6516DS1-VTMV2

CPR at Boresight, dB	16	17	16	19	18
CPR at Sector, dB	15	14	14	9	10

Mechanical Specifications

Mechanical Tilt Range	0°–19°
Wind Loading @ Velocity, frontal	512.0 N @ 150 km/h (115.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	120.0 N @ 150 km/h (27.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	560.0 N @ 150 km/h (125.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	413 mm 16.26 in
Depth, packed	249 mm 9.803 in
Length, packed	1525 mm 60.039 in
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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 3.9 kg | 8.598 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4.2 kg | 9.259 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

600899A-2

