

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

OBSOLETE

This product was discontinued on: March 30, 2024

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	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	0
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

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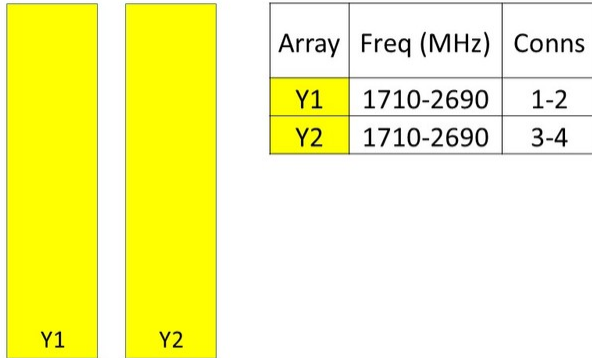
Dimensions

Width	305 mm 12.008 in
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Depth	118 mm 4.646 in
Length	1390 mm 54.724 in
Net Weight, without mounting kit	10.2 kg 22.487 lb

Array Layout



Bottom
(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz
Polarization	±45°

Electrical Specifications

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, Cross Polarization, dB	30	30	30	30	30

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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	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350

Mechanical Specifications

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	1702 mm 67.008 in
Weight, gross	20.7 kg 45.636 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



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