

HWXX-6516DS2-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 27, 2020**

Replaced By:

VV-65A-R1B

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and 1x SBT, the two highband arrays utilize a common tilt.

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	ASA, UV stabilized
Radiator Material	Low loss circuit board
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, total	4

Dimensions

Width	290 mm 11.417 in
Depth	103 mm 4.055 in
Length	1390 mm 54.724 in
Net Weight, without mounting kit	8.8 kg 19.401 lb

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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	17.8	17.9	18.2	18.5
Beamwidth, Horizontal, degrees	66	64	64	62	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	18	18	20	20
Front-to-Back Ratio at 180°, dB	29	30	31	32	31
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, maximum, watts	350	350	350	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	±2.5	±2.3	±1.7	±2.8	±3.2
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	25	26	26.5	27.4	25

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180° ± 30°, dB

CPR at Boresight, dB	17	18	16	18	17
CPR at Sector, dB	15	14	13	9	8

Mechanical Specifications

Wind Loading @ Velocity, frontal	528.0 N @ 150 km/h (118.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	118.0 N @ 150 km/h (26.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	555.0 N @ 150 km/h (124.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	391 mm 15.394 in
Depth, packed	255 mm 10.039 in
Length, packed	1712 mm 67.402 in
Weight, gross	19.3 kg 42.549 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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