HW4X-6516DS1-VTM



8-port sector antenna, 8x 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)

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

8P-8M-A4 8-port sector antenna, 8x 1695–2690 MHz, 65° HPBW, 4x RET V4-65A-R4

General Specifications

Antenna Type Sector

Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracket

Performance NoteOutdoor usageRadome MaterialPVC, 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 8

RF Connector Quantity, total 8

Dimensions

 Width
 628 mm | 24.724 in

 Depth
 118 mm | 4.646 in

 Length
 1390 mm | 54.724 in

 Net Weight, without mounting kit
 23 kg | 50.706 lb

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Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2690 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2170	2300-2500	2500-2690
Gain, dBi	17.3	17.6	18	18.6	18.6
Beamwidth, Horizontal, degrees	68	67	67	62	63
Beamwidth, Vertical, degrees	6.7	6.4	6.1	5.3	5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	16	16	16	19	19
Front-to-Back Ratio at 180°, dB	31	31	32	32	30
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	17.1	17.3	17.7	18.4	18.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 16.8 5° 17.1 10° 17.1	0° 17.3 5° 17.4 10° 17.3	0° 17.6 5° 17.7 10° 17.6	0 ° 18.0 5 ° 18.4 10 ° 18.4	0° 18.3 5° 18.5 10° 18.2
Beamwidth, Horizontal Tolerance, degrees	±3.4	±2.5	±2.7	±3.3	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.4	±0.2	±0.2
USLS, beampeak to 20° above	16	16	16	19	18

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beampeak, dB					
Front-to-Back Total Power at 180° ± 30°, dB	26	26	26	27	26
CPR at Boresight, dB	16	16	16	17	20
CPR at Sector, dB	14	13	12	9	9

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,024.0 N @ 150 km/h (230.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 120.0 N @ 150 km/h (27.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,120.0 N @ 150 km/h (251.8 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 718 mm | 28.268 in

 Depth, packed
 249 mm | 9.803 in

 Length, packed
 1706 mm | 67.165 in

 Weight, gross
 36.5 kg | 80.469 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

BSAMNT-3 – Wide Profile Antenna 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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