HW4X-6516DS1-VTM | HW4X-6516DS1-A4M

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)

Electrical Specifications

Frequency Band, MHz	**1710–1880**	**1850–1990**	**1920–2170**	**2300–2500**	**2500–2690**
Gain, dBi	17.3	17.6	18.0	18.6	18.6
Beamwidth, Horizontal, degrees	68	67	67	62	63
Beamwidth, Vertical, degrees	6.7	6.4	6.1	5.3	5.0
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, 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	300	300
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	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	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 beampeak, dB	16	16	16	19	18
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

* 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
Total Input Power, maximum	900 W @ 50 °C

Mechanical Specifications

RF Connector Quantity, total	8
RF Connector Quantity, high band	8
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	1024.0 N @ 150 km/h 230.2 lbf @ 150 km/h
Wind Loading, lateral	120.0 N @ 150 km/h 27.0 lbf @ 150 km/h
Wind Speed, maximum	241 km/h | 150 mph

Dimensions

Length	1390.0 mm | 54.7 in
Width	628.0 mm | 24.7 in
Depth	118.0 mm | 4.6 in
Net Weight, without mounting kit	23.0 kg | 50.7 lb

Packed Dimensions

Length	1706.0 mm | 67.2 in
Width	718.0 mm | 28.3 in
Depth	249.0 mm | 9.8 in
Shipping Weight	36.5 kg | 80.5 lb

Regulatory Compliance/Certifications

Agency	**Classification**
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)

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