HWXXX-6516DS-VTM | HWXXX-6516DS-A3M

6-port sector antenna, 6x 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
- Excellent solution for site sharing and maximizing capacity
- 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	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	6
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	HWXXX-6516DS-A3M

Dimensions

Width	504 mm | 19.843 in
Depth	118 mm | 4.646 in
Length	1390 mm | 54.724 in
Net Weight, without mounting kit	19.5 kg | 42.99 lb

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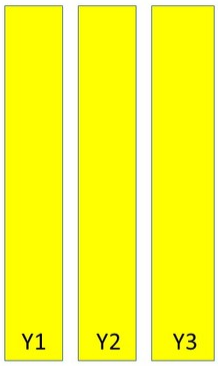
Array Layout



Bottom

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

Array	Freq (MHz)	Conns
Y1	1710-2690	1-2
Y2	1710-2690	3-4
Y3	1710-2690	5-6

Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	**1710–1880**	**1850–1990**	**1920–2180**	**2300–2500**	**2500–2690**
Gain, dBi	17.6	17.7	17.9	18.4	18.3
Beamwidth, Horizontal, degrees	61.6	63.2	64.4	61.5	60.8
Beamwidth, Vertical, degrees	7.3	6.8	6.4	5.3	5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	15	17	17	13	14
Front-to-Back Ratio at 180°, dB	27	27	27	27	27
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,	350	350	350	300	300

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maximum, watts

Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.2	17.3	17.6	17.9	17.9
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0 ° | 17.0 5 ° | 17.2 10 ° | 17.2	0 ° | 17.1 5 ° | 17.3 10 ° | 17.3	0 ° | 17.5 5 ° | 17.7 10 ° | 17.7	0 ° | 17.7 5 ° | 17.9 10 ° | 17.9	0 ° | 17.7 5 ° | 18.0 10 ° | 17.8
Beamwidth, Horizontal Tolerance, degrees	±3.6	±2.9	±4.2	±3.9	±5.3
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	15	16	17	15	14
Front-to-Back Total Power at 180° ± 30°, dB	24	24	22.7	23.1	20.4
CPR at Boresight, dB	23	21	19	19	19
CPR at Sector, dB	13	10	9	8	14

Mechanical Specifications

Wind Loading @ Velocity, frontal	715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	77.0 N @ 150 km/h (17.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	908.0 N @ 150 km/h (204.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	613 mm | 24.134 in
Depth, packed	226 mm | 8.898 in
Length, packed	1525 mm | 60.039 in
Weight, gross	31.1 kg | 68.564 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

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REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance

CE

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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