HBXX-6516DS-VTM | HBXX-6516DS-A2M



4-port sector antenna, 4x 1710-2180 MHz, 65° HPBW, RET compatible

- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Great solution to maximize network coverage and capacity

OBSOLETE

This product was discontinued on: December 31, 2023

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

RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, total 4

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBXX-6516DS-A2M

Dimensions

 Width
 305 mm | 12.008 in

 Depth
 166 mm | 6.535 in

 Length
 1297 mm | 51.063 in

 Net Weight, without mounting kit
 13.9 kg | 30.644 lb

Electrical Specifications

COMMSC PE°

HBXX-6516DS-VTM | HBXX-6516DS-A2M

Impedance 50 ohm

Operating Frequency Band 1710 – 2180 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain, dBi	17.7	18	18
Beamwidth, Horizontal, degrees	67	65.8	64.2
Beamwidth, Vertical, degrees	7.5	7	6.6
Beam Tilt, degrees	0-10	0-10	0-10
USLS (First Lobe), dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	22	22	21
CPR at Sector, dB	8	9	9
Isolation, Cross Polarization, dB	30	30	30
VSWR Return loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350

Electrical Specifications, BASTA

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	17.2	17.2	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0° 17.0 5° 17.3 10° 17.0	0° 17.1 5° 17.4 10° 17.0	0° 17.4 5° 17.7 10° 17.2
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.3	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25.8	26	26.1
CPR at Boresight, dB	22	22	22
CPR at Sector, dB	9	9	9

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 419.0 N @ 150 km/h (94.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 113.0 N @ 150 km/h (25.4 lbf @ 150 km/h)

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Wind Loading @ Velocity, rear 488.0 N @ 150 km/h (109.7 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 402 mm | 15.827 in

 Depth, packed
 292 mm | 11.496 in

 Length, packed
 1427 mm | 56.181 in

 Weight, gross
 23.5 kg | 51.809 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

