

HBXX-3319DS-VTM | HBXX-3319DS-A2M

4-port sector antenna, 4x 1710–2180 MHz, 33° HPBW, RET compatible

Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	20.3	20.3	20.7
Beamwidth, Horizontal, degrees	36	35	34
Beamwidth, Vertical, degrees	6.5	6.2	5.9
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	15	16	16
Front-to-Back Ratio at 180°, dB	41	42	42
Isolation, Cross Polarization, dB	30	30	30
Isolation, Inter-band, dB	28	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	20.0	20.0	20.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.8
Gain by Beam Tilt, average, dBi	0 ° 20.1 5 ° 20.1 10 ° 19.7	0 ° 20.0 5 ° 20.1 10 ° 19.7	0 ° 20.4 5 ° 20.5 10 ° 19.9
Beamwidth, Horizontal Tolerance, degrees	±2.8	±1.6	±2.4
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	14	15	15
Front-to-Back Total Power at 180° ± 30°, dB	36	38	37
CPR at Boresight, dB	25	24	24

* 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 – 2180 MHz
Antenna Type	Sector
Band	Single band
Performance Note	Outdoor usage

Mechanical Specifications

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RF Connector Quantity, total	4
RF Connector Quantity, high band	4
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	Fiberglass, UV resistant
RF Connector Location	Bottom
Wind Loading, frontal	1,019.0 N @ 150 km/h 229.1 lbf @ 150 km/h
Wind Loading, lateral	176.0 N @ 150 km/h 39.6 lbf @ 150 km/h
Wind Speed, maximum	201 km/h 125 mph

Dimensions

Length	1448.0 mm 57.0 in
Width	564.0 mm 22.2 in
Depth	125.0 mm 4.9 in
Net Weight, without mounting kit	17.3 kg 38.1 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBXX-3319DS-A2M

Packed Dimensions

Length	1934.0 mm 76.1 in
Width	758.0 mm 29.8 in
Depth	281.0 mm 11.1 in
Shipping Weight	30.8 kg 67.9 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives



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