

DBXLH-6565A-VTM | DBXLH-6565A-A2M

4-port sector antenna, 2x 824–960 and 2x 1710–2180 MHz, 65° HPBW, RET compatible



OBSOLETE

This product was discontinued on: March 31, 2021

Replaced By:

RV-65A-R2 4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, 2x RET

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
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	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	2
RF Connector Quantity, low band	2
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	DBXLH-6565A-A2M
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Dimensions

Width	269 mm 10.591 in
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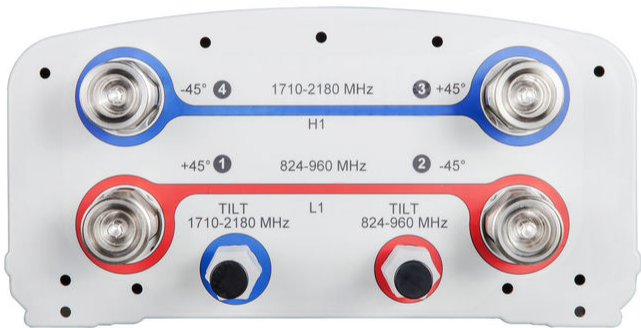
Depth	132 mm 5.197 in
Length	1297 mm 51.063 in
Net Weight, without mounting kit	14.2 kg 31.306 lb

Array Layout



Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz 824 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	14	14.3	16.5	16.8	17
Beamwidth, Horizontal, degrees	69.8	67	66.5	63	60
Beamwidth, Vertical, degrees	15.2	14.5	7.2	6.8	6.5
Beam Tilt, degrees	0–15	0–15	0–8	0–8	0–8

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USLS (First Lobe), dB	16	18	15	15	15
Front-to-Back Ratio at 180°, dB	25	25	28	28	27
Isolation, Cross Polarization, dB	25	30	30	30	30
Isolation, Inter-band, dB	33	33	33	33	33
VSWR Return loss, dB	1.4 15.6	1.5 14.0	1.5 14.0	1.4 15.6	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	350	350

Electrical Specifications, BASTA

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	14.1	14.4	16.5	16.6	16.7
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6	±0.2	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 14.4 8° 14.3 15° 13.7	0° 14.7 8° 14.5 15° 13.9	0° 16.5 4° 16.6 8° 16.4	0° 16.7 4° 16.7 8° 16.4	0° 16.9 4° 16.8 8° 16.3
Beamwidth, Horizontal Tolerance, degrees	±3.1	±2.8	±4.4	±2.2	±4.2
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.3	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	14	16	16	17	16
Front-to-Back Total Power at 180° ± 30°, dB	20	20	25	25	23
CPR at Boresight, dB	21	21	16	16	17
CPR at Sector, dB	10	8	7	7	7

Mechanical Specifications

Wind Loading @ Velocity, frontal	402.0 N @ 150 km/h (90.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	90.0 N @ 150 km/h (20.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	438.0 N @ 150 km/h (98.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	376 mm 14.803 in
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Depth, packed	267 mm 10.512 in
Length, packed	1610 mm 63.386 in
Weight, gross	22.9 kg 50.486 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



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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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