

DBXLHC-6565A-VTM



Multiband Antenna with Internal Crossband Coupler, 824–960 and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Interleaved dipole technology—integrated crossband coupler

OBSOLETE

This product was discontinued on: December 31, 2016

Replaced By

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

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

Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	13.6	14.1	16.2	16.6	16.5
Beamwidth, Horizontal, degrees	69	66	68	63	61
Beamwidth, Vertical, degrees	15.4	14.6	7.3	6.9	6.5
Beam Tilt, degrees	0–15	0–15	0–8	0–8	0–8
USLS (First Lobe), dB	15	16	18	18	16
Front-to-Back Ratio at 180°, dB	22	25	28	30	26
Isolation, Cross Polarization, dB	25	30	30	30	30
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	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

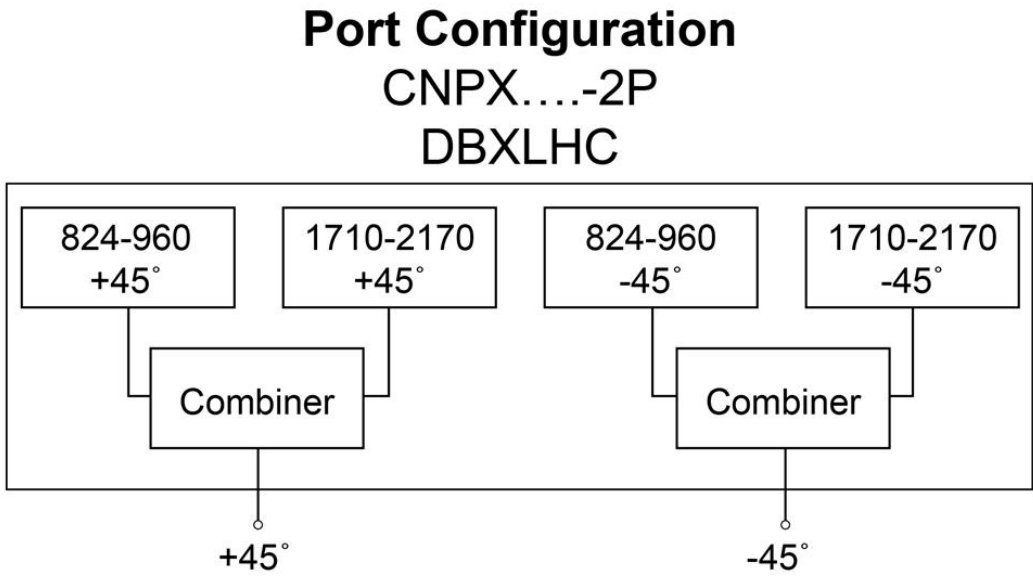
Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	13.7	14.1	15.9	16.3	16.3
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.3	±0.5	±0.5
Gain by Beam Tilt, average, dBi	0 ° 13.9 7 ° 13.7 15 ° 13.4	0 ° 14.3 7 ° 14.3 15 ° 13.9	0 ° 15.9 4 ° 15.9 8 ° 15.8	0 ° 16.4 4 ° 16.4 8 ° 16.1	0 ° 16.4 4 ° 16.4 8 ° 16.1
Beamwidth, Horizontal Tolerance, degrees	±2.9	±3.5	±3.9	±5	±5.7
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.8	±0.3	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	15	16	18	17	16
Front-to-Back Total Power at 180° ± 30°, dB	19	19	22	23	22

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CPR at Boresight, dB	22	20	14	13	13
CPR at Sector, dB	11	8	6	6	5

* 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.](#)

Port Configuration



General Specifications

Operating Frequency Band	1710 – 2180 MHz 824 – 960 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	2
RF Connector Quantity, low band	2
RF Connector Quantity, high band	2
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting brackc
Radiator Material	Aluminum
Radome Material	PVC, UV resistant
RF Connector Location	Bottom
RF Connector Quantity, duplexed low and high bands	2

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Wind Loading, frontal	402.0 N @ 150 km/h 90.4 lbf @ 150 km/h
Wind Loading, lateral	90.0 N @ 150 km/h 20.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	1298.0 mm 51.1 in
Width	269.0 mm 10.6 in
Depth	132.0 mm 5.2 in
Net Weight, without mounting kit	13.8 kg 30.4 lb

Packed Dimensions

Length	1610.0 mm 63.4 in
Width	367.0 mm 14.4 in
Depth	267.0 mm 10.5 in
Shipping Weight	22.4 kg 49.4 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



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
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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.

General Specifications

Application	Outdoor
Includes	Brackets Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel

Dimensions

Compatible Diameter, maximum	114.3 mm 4.5 in
Compatible Diameter, minimum	61.0 mm 2.4 in
Net Weight	3.9 kg 8.5 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)
CE	Compliant with the relevant CE product directives

