DBXLH-6565EC-VTM

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

- Patented split dipole technology
- Similar beam and gain performance on both bands

This product will be discontinued on: March 27, 2020

Electrical Specifications

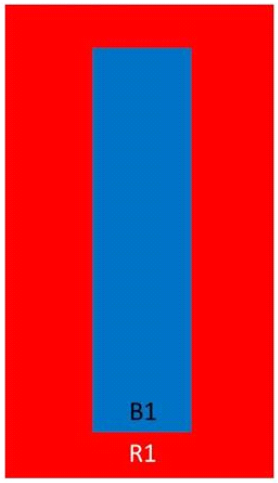
Frequency Band, MHz	**824–896**	**870–960**	**1710–1880**	**1850–1990**	**1920–2180**
Gain, dBi	16.4	17.0	16.8	16.9	17.0
Beamwidth, Horizontal, degrees	69	66	62	64	61
Beamwidth, Vertical, degrees	7.7	7.3	7.2	6.9	6.5
Beam Tilt, degrees	2–10	2–10	2–10	2–10	2–10
USLS (First Lobe), dB	17	17	16	16	16
Front-to-Back Ratio at 180°, dB	26	28	32	32	32
Isolation, Cross Polarization, dB	30	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	350	350	350	350	350
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	16.5	17.0	16.7	16.8	16.8
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.3	±0.4	±0.5
Gain by Beam Tilt, average, dBi	2 ° | 16.7 6 ° | 16.6 10 ° | 16.3	2 ° | 17.1 6 ° | 17.1 10 ° | 16.7	2 ° | 16.7 6 ° | 16.7 10 ° | 16.5	2 ° | 17.0 6 ° | 16.9 10 ° | 16.4	2 ° | 17.1 6 ° | 16.9 10 ° | 16.3
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.7	±3.5	±3.3	±5.9
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.5	±0.3	±0.5
USLS, beampeak to 20° above beampeak, dB	17	18	17	17	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	25	26	26
CPR at Boresight, dB	20	21	14	15	14
CPR at Sector, dB	16	11	3	5	3

* 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.

Array Layout



Bottom

Array	Freq (MHz)	Conns
R1	824-960	1-2
B1	1710-2180	3-4

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

Port Configuration

DBXLH-6565EC-VTM

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	4
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 bracket
Radome Material	PVC, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	208.2 lbf @ 150 km/h | 922.0 N @ 150 km/h
Wind Loading, lateral	202.0 N @ 150 km/h | 45.4 lbf @ 150 km/h
Wind Speed, maximum	201 km/h | 125 mph

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Dimensions

Length	2577.0 mm | 101.5 in
Width	269.0 mm | 10.6 in
Depth	132.0 mm | 5.2 in
Net Weight, without mounting kit	24.2 kg | 53.4 lb

Packed Dimensions

Length	2717.0 mm | 107.0 in
Width	376.0 mm | 14.8 in
Depth	267.0 mm | 10.5 in
Shipping Weight	34.2 kg | 75.4 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)

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