DBXLH-6565C-VTM

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

- Interleaved dipole technology providing for attractive, low wind load mechanical package

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

Dimensions

Width	269 mm | 10.591 in
Length	2577 mm | 101.457 in
Depth	132 mm | 5.197 in

Array Layout

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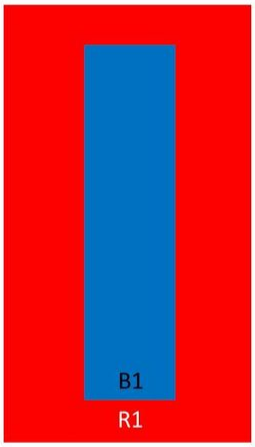

Bottom

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

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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	16.8	17.4	18.5	18.7	18.3
Beamwidth, Horizontal, degrees	70.2	67.2	65.8	61.9	60.2
Beamwidth, Vertical, degrees	7.7	7.4	4.9	4.6	4.3
Beam Tilt, degrees	0–8	0–8	0–6	0–6	0–6

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USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	26	27	32	32	28
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	35	35	35	35	35
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	16.6	17.1	17.7	17.6	17.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.5	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0 ° | 16.7 4 ° | 16.7 8 ° | 16.5	0 ° | 17.2 4 ° | 17.2 8 ° | 17.0	0 ° | 17.7 3 ° | 17.7 6 ° | 17.4	0 ° | 17.9 3 ° | 17.7 6 ° | 17.1	0 ° | 17.9 3 ° | 17.8 6 ° | 17.0
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.8	±4.9	±2	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	14	14	11	12	13
Front-to-Back Total Power at 180° ± 30°, dB	22	22	26	28	27
CPR at Boresight, dB	23	21	18	17	15
CPR at Sector, dB	17	11	10	9	7

Mechanical Specifications

Wind Loading at Velocity, frontal	207.3 lbf @ 150 km/h | 922.0 N @ 150 km/h
Wind Loading at Velocity, lateral	202.0 N @ 150 km/h | 45.4 lbf @ 150 km/h
Wind Speed, maximum	201 km/h | 124.896 mph

Packaging and Weights

Width, packed	376 mm | 14.803 in
Depth, packed	267 mm | 10.512 in
Length, packed	2717 mm | 106.969 in

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Net Weight, without mounting kit	21.7 kg | 47.84 lb
Weight, gross	31 kg | 68.343 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

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