

# 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

This product will be discontinued on: March 30, 2024

## General Specifications

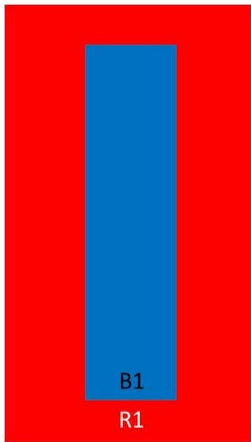
<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	PVC, UV resistant
<b>Radiator Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	4

## Dimensions

<b>Width</b>	269 mm   10.591 in
<b>Depth</b>	132 mm   5.197 in
<b>Length</b>	2577 mm   101.457 in
<b>Net Weight, without mounting kit</b>	21.7 kg   47.84 lb

## Array Layout

# DBXLH-6565C-VTM



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

Bottom

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

## Port Configuration



## Electrical Specifications

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

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## 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
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 @ Velocity, frontal

922.0 N @ 150 km/h (207.3 lbf @ 150 km/h)

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<b>Wind Loading @ Velocity, lateral</b>	202.0 N @ 150 km/h (45.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,003.0 N @ 150 km/h (225.5 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	201 km/h (125 mph)

## Packaging and Weights

<b>Width, packed</b>	376 mm   14.803 in
<b>Depth, packed</b>	267 mm   10.512 in
<b>Length, packed</b>	2717 mm   106.969 in
<b>Weight, gross</b>	31 kg   68.343 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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