

# DBXDH-8585B-VTM



Multiband Antenna, 790–960 and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

## OBSOLETE

This product was discontinued on: December 31, 2016

### Replaced By

SBNHH-1D85B

6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 3x RET

## Electrical Specifications

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	14.2	14.5	17.0	16.7	17.2
Beamwidth, Horizontal, degrees	87	87	84	86	86
Beamwidth, Vertical, degrees	11.1	10.5	5.1	4.8	4.4
Beam Tilt, degrees	0–10	0–10	0–6	0–6	0–6
USLS (First Lobe), dB	15	15	15	17	17
Front-to-Back Ratio at 180°, dB	21	24	28	28	28
CPR at Boresight, dB	21	18	22	21	21
CPR at Sector, dB	10	10	7	8	9
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30
VSWR   Return Loss, dB	1.4   15.6	1.4   15.6	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	400	400	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	14.0	14.2	16.7	16.5	16.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.3	±0.2	±0.9
Gain by Beam Tilt, average, dBi	0 °   14.1 5 °   14.0 10 °   13.8	0 °   14.3 5 °   14.2 10 °   13.9	0 °   16.6 3 °   16.8 6 °   16.7	0 °   16.4 3 °   16.6 6 °   16.3	0 °   16.8 3 °   17.0 6 °   16.7
Beamwidth, Horizontal Tolerance, degrees	±3.2	±2.3	±5	±3.3	±4

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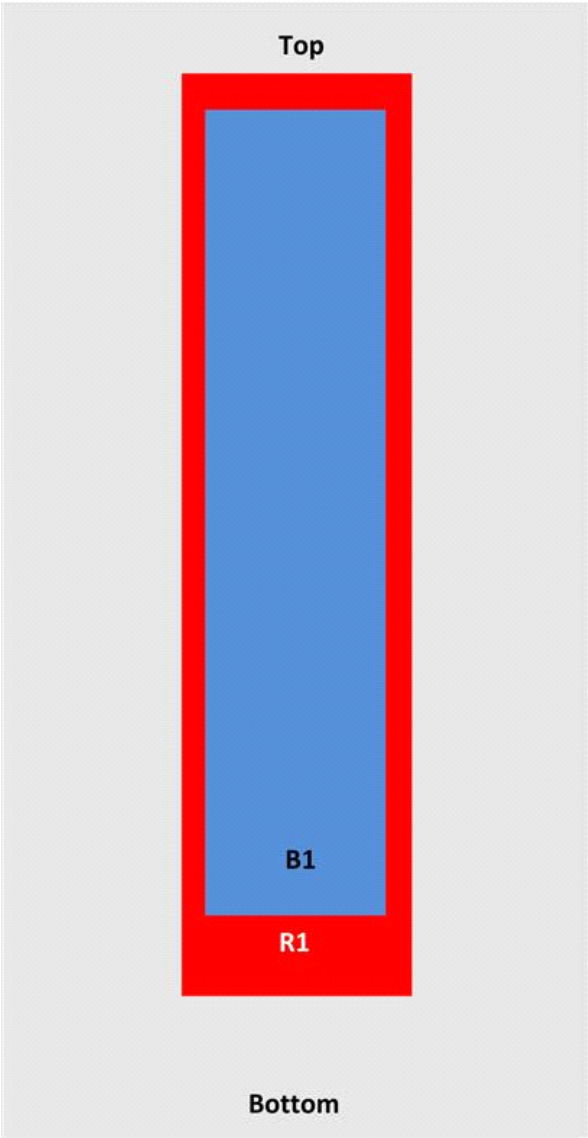
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.3	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	17	19	22	23	23
CPR at Boresight, dB	24	20	23	21	22
CPR at Sector, dB	10	11	7	9	10

\* 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

# DBXDH-8585B-VTM

DBXDH-8585A-VTM, DBXDH-8585A-A2M, DBXDH-8585B-VTM, DBXDH-8585B-A2M



Array	Freq (MHz)	Conns
R1	790-960	1-2
B1	1710-2180	3-4

View from the front of the antenna

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

## General Specifications

Operating Frequency Band      1710 – 2180 MHz | 790 – 960 MHz

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<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, high band</b>	2
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Aluminum   Low loss circuit board
<b>Radome Material</b>	Fiberglass, UV resistant
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, maximum</b>	619.0 N @ 150 km/h 139.2 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	1847.0 mm   72.7 in
<b>Width</b>	301.0 mm   11.9 in
<b>Depth</b>	181.0 mm   7.1 in
<b>Net Weight, without mounting kit</b>	21.0 kg   46.3 lb

## Packed Dimensions

<b>Length</b>	2283.0 mm   89.9 in
<b>Width</b>	463.0 mm   18.2 in
<b>Depth</b>	358.0 mm   14.1 in
<b>Shipping Weight</b>	34.4 kg   75.8 lb

## Regulatory Compliance/Certifications

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



## Included Products

# DBXDH-8585B-VTM

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BSAMNT-3 — Wide Profile Antenna 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