

DBXDH-8585A-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-1D85A

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	13.2	13.4	15.5	15.8	16.1
Beamwidth, Horizontal, degrees	86	87	82	83	81
Beamwidth, Vertical, degrees	16.5	15.3	7.3	6.9	6.4
Beam Tilt, degrees	0–15	0–15	0–10	0–10	0–10
USLS (First Lobe), dB	17	17	17	15	14
Front-to-Back Ratio at 180°, dB	23	25	28	27	27
CPR at Boresight, dB	20	20	17	18	17
CPR at Sector, dB	6	9	6	7	6
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	40	40	35	35	35
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	500	500	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	12.8	13.3	15.4	15.5	15.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.3	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0 ° 12.8 8 ° 12.8 15 ° 12.8	0 ° 13.3 8 ° 13.3 15 ° 13.1	0 ° 15.2 5 ° 15.5 10 ° 15.4	0 ° 15.2 5 ° 15.6 10 ° 15.4	0 ° 15.4 5 ° 15.8 10 ° 15.5
Beamwidth, Horizontal Tolerance, degrees	±5.5	±4	±5.4	±4.3	±5.1

DBXDH-8585A-VTM

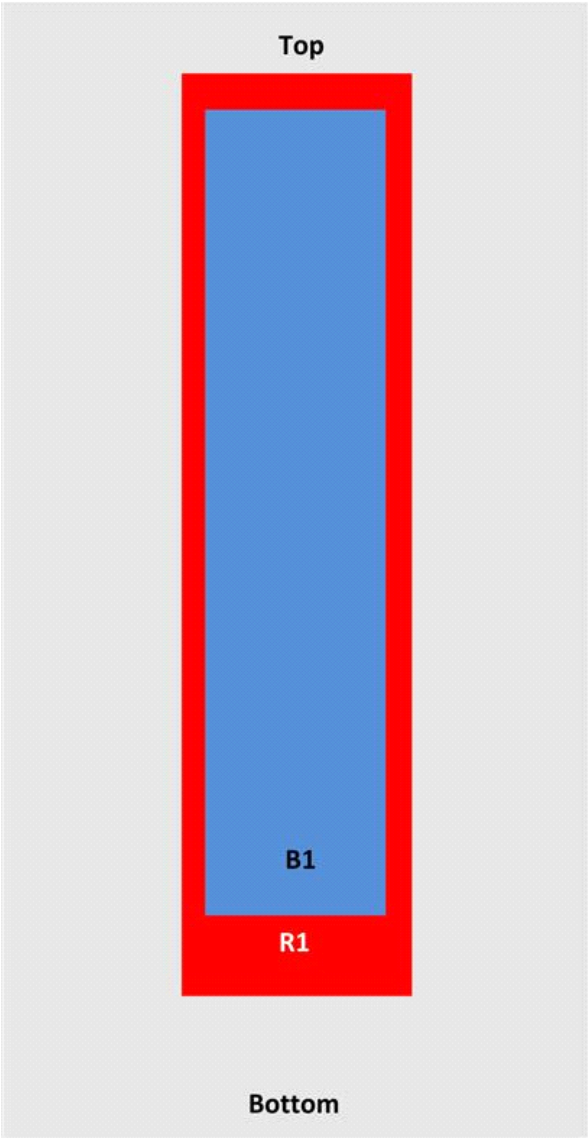
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.9	±0.4	±0.4	±0.5
USLS, beampeak to 20° above beampeak, dB	18	18	17	17	16
Front-to-Back Total Power at 180° ± 30°, dB	18	20	22	22	22
CPR at Boresight, dB	21	22	18	19	19
CPR at Sector, dB	7	9	6	8	9

* 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-8585A-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

DBXDH-8585A-VTM

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
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Location	Bottom
Wind Loading, frontal	403.0 N @ 150 km/h 90.6 lbf @ 150 km/h
Wind Loading, lateral	130.0 N @ 150 km/h 29.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	1293.0 mm 50.9 in
Width	301.0 mm 11.9 in
Depth	181.0 mm 7.1 in
Net Weight, without mounting kit	14.5 kg 32.0 lb

Packed Dimensions

Length	1711.0 mm 67.4 in
Width	461.0 mm 18.1 in
Depth	352.0 mm 13.9 in
Shipping Weight	26.7 kg 59.0 lb

Regulatory Compliance/Certifications

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



Included Products

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