Product Specifications

DBXNH-8585B-VTM

Andrew® Dual Band Antenna, 698–896 MHz and 1710–2180 MHz, 85° horizontal beamwidth, RET compatible

- Patented dipole technology
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

OBSOLETE

This product was discontinued on: December 31, 2015

Replaced By

SBNHH-1D85B	Andrew® Tri-band Antenna, 698–896 and 2x 1695–2360 MHz, 85° horizontal beamwidth, internal RETs.
NHH-85B-R2B	Tri-band Antenna, 698–896 and 2x 1695–2360 MHz, 85° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.

Electrical Specifications

Frequency Band, MHz	**698–806**	**806–896**	**1710–1880**	**1850–1990**	**1920–2180**
Gain, dBi	14.2	14.4	17.5	17.7	17.7
Beamwidth, Horizontal, degrees	89	86	84	86	86
Beamwidth, Vertical, degrees	12.3	11.0	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	18	18	18
Front-to-Back Ratio at 180°, dB	26	25	29	29	29
CPR at Boresight, dB	21	20	21	21	21
CPR at Sector, dB	9	9	7	8	9
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, 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	-153	-153	-153	-153	-153
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	**698–806**	**806–896**	**1710–1880**	**1850–1990**	**1920–2180**
Gain by all Beam Tilts, average, dBi	13.4	14.1	16.7	16.5	16.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.3	±0.2	±0.9
Gain by Beam Tilt, average, dBi	0 ° | 13.5	0 ° | 14.2	0 ° | 16.6	0 ° | 16.4	0 ° | 16.8
	5 ° | 13.5	5 ° | 14.1	3 ° | 16.8	3 ° | 16.6	3 ° | 17.0
	10 ° | 13.2	10 ° | 13.9	6 ° | 16.7	6 ° | 16.3	6 ° | 16.7
Beamwidth, Horizontal Tolerance, degrees	±3.4	±3.1	±5	±3.3	±4
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.4	±0.3	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	17	17	17	19	19
Front-to-Back Total Power at 180° ± 30°, dB	17	17	22	23	23
CPR at Boresight, dB	26	23	23	21	22

CPR at Sector, dB	12	10	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.

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® multiband
Band	Multiband
Brand	DualPol® | Teletilt®
Operating Frequency Band	1710 – 2180 MHz | 698 – 896 MHz
Performance Note	Outdoor usage

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Brass | Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, maximum	618.6 N @ 150 km/h 139.1 lbf @ 150 km/h
Wind Speed, maximum	241 km/h | 150 mph

Dimensions

Depth	181.0 mm | 7.1 in
Length	1847.0 mm | 72.7 in
Width	301.0 mm | 11.9 in
Net Weight	21.0 kg | 46.2 lb

Remote Electrical Tilt (RET) Information

RET System	Teletilt®

Packed Dimensions

Depth	294.0 mm | 11.6 in
Length	2163.0 mm | 85.2 in
Width	409.0 mm | 16.1 in
Shipping Weight	33.5 kg | 73.9 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Product Specifications

DBXNH-8585B-VTM

Included Products

DB380 — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes 2 clamp sets and double nuts.

DB5083 — Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance