

DBXNH-8585B-VTM

Andrew® Dual Band Teletilt® 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
- The values presented on this datasheet have been calculated based on N-P-BASTA White Paper version 9.6 by the NGMN Alliance

Electrical Specifications

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
	0 ° 13.5	0 ° 14.2	0 ° 16.6	0 ° 16.4	0 ° 16.8
Gain by Beam Tilt, average, dBi	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, degrees	89	86	84	86	86
Beamwidth, Horizontal Tolerance, degrees	±3.4	±3.1	±5	±3.3	±4
Beamwidth, Vertical, degrees	12.3	11.0	5.1	4.8	4.4
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.4	±0.3	±0.2	±0.4
Beam Tilt, degrees	0–10	0–10	0–6	0–6	0–6
USLS, 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
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

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® multiband
Band	Multiband
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2180 MHz 698 – 896 MHz

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

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RF Connector Quantity, total	4
Wind Loading, maximum	618.6 N @ 150 km/h 139.1 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 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

Model with Factory Installed AISG 1.1 Actuator	DBXNH-8585B-R2M
Model with Factory Installed AISG 2.0 Actuator	DBXNH-8585B-A2M
RET System	Teletilt®

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



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.