



DBXLH-8585A-VTM

Andrew® Dual Band Antenna, 824–960 MHz and 1710–2180 MHz, 85° horizontal beamwidth, RET compatible

- Patented dipole technology

Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	13.2	14.2	16.7	16.7	16.9
Beamwidth, Horizontal, degrees	84	84	86	83	84
Beamwidth, Vertical, degrees	15.7	15.1	7.6	7.2	6.8
Beam Tilt, degrees	0–16	0–16	0–10	0–10	0–10
USLS (First Lobe), dB	15	16	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	32	32	32
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	28	28	35	35	35
VSWR Return Loss, dB	1.4 15.6	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	350	350	350
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	13.1	13.6	16.2	16.3	16.5
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.5	±0.4	±0.4	±0.5
	0 ° 13.2	0 ° 13.8	0 ° 16.1	0 ° 16.1	0 ° 16.5
Gain by Beam Tilt, average, dBi	8 ° 13.0	8 ° 13.5	5 ° 16.3	5 ° 16.4	5 ° 16.7
	16 ° 12.9	16 ° 13.4	10 ° 16.1	10 ° 16.2	10 ° 16.2
Beamwidth, Horizontal Tolerance, degrees	±3.8	±3.6	±4	±3.9	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.8	±0.5	±0.4	±0.5
USLS, beampeak to 20° above beampeak, dB	15	16	19	18	18
Front-to-Back Total Power at 180° ± 30°, dB	20	21	23	24	23
CPR at Boresight, dB	20	20	21	21	19
CPR at Sector, dB	9	10	10	12	12

* 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 824 – 960 MHz
Performance Note	Outdoor usage

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Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Brass Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, maximum	413.4 N @ 150 km/h 92.9 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	166.0 mm 6.5 in
Length	1229.0 mm 48.4 in
Width	305.0 mm 12.0 in
Net Weight	15.4 kg 34.0 lb

Remote Electrical Tilt (RET) Information

RET System	Teletilt®
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Packed Dimensions

Depth	336.0 mm 13.2 in
Length	1807.0 mm 71.1 in
Width	515.0 mm 20.3 in
Shipping Weight	26.9 kg 59.3 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



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.

* Footnotes

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Performance Note Severe environmental conditions may degrade optimum performance