



SBNH-1D8585B

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

- Patented dipole technology
- Internal next generation actuator eliminates field installation and defines new standards for reliability

OBSOLETE

This product was discontinued on: December 31, 2014

Replaced By

DBXNH-8585B-VTM

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

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	13.9	14.4	16.8	16.9	17.3
Beamwidth, Horizontal, degrees	91	90	83	82	85
Beamwidth, Vertical, degrees	12.3	10.8	5.1	4.8	4.5
Beam Tilt, degrees	0–10	0–10	0–6	0–6	0–6
USLS (First Lobe), dB	15	15	16	17	18
Front-to-Back Ratio at 180°, dB	25	25	27	28	28
CPR at Boresight, dB	24	24	20	21	21
CPR at Sector, dB	13	13	8	9	10
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
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	-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	13.6	14.2	16.7	16.7	17.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.2	±0.6
	0 ° 13.6	0 ° 14.2	0 ° 16.6	0 ° 16.6	0 ° 16.9
Gain by Beam Tilt, average, dBi	5 ° 13.6	5 ° 14.3	3 ° 16.8	3 ° 16.8	3 ° 17.2
	10 ° 13.4	10 ° 14.0	6 ° 16.7	6 ° 16.6	6 ° 16.8
Beamwidth, Horizontal Tolerance, degrees	±4.3	±2.4	±5	±2.4	±5.4
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.5	±0.3	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	16	16	17	18	19
Front-to-Back Total Power at 180° ± 30°, dB	16	18	22	23	23
CPR at Boresight, dB	24	24	20	21	21
CPR at Sector, dB	13	13	8	9	10

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA,

SBNH-1D8585B

[download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® multiband with internal RET
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	619.0 N @ 150 km/h 139.2 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	20.4 kg 45.0 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	11.0 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
RET System	Teletilt®

Packed Dimensions

Depth	349.0 mm 13.7 in
Length	2096.0 mm 82.5 in
Width	471.0 mm 18.5 in
Shipping Weight	33.4 kg 73.6 lb

Regulatory Compliance/Certifications

SBNH-1D8585B

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)



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
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