



## SBNH-1D8585C

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

- Patented dipole technology
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Each antenna is independently capable of field adjustable electrical tilt
- Internal next generation actuator eliminates field installation and defines new standards for reliability

### OBSOLETE

This product was discontinued on: December 31, 2014

#### Replaced By

DBXRH-8585C-VTM

Andrew® Dual Band Antenna, 698–960 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	15.5	15.4	16.9	17.0	17.3
Beamwidth, Horizontal, degrees	88	83	85	84	85
Beamwidth, Vertical, degrees	9.1	8.1	5.1	4.7	4.4
Beam Tilt, degrees	0–9	0–9	0–6	0–6	0–6
USLS (First Lobe), dB	16	16	17	18	19
Front-to-Back Ratio at 180°, dB	22	21	26	26	27
CPR at Boresight, dB	25	21	22	24	23
CPR at Sector, dB	12	9	8	10	11
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	14.7	15.4	16.6	16.6	17.0
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.4	±0.3	±0.6
	0 °   14.7	0 °   15.2	0 °   16.5	0 °   16.5	0 °   16.9
Gain by Beam Tilt, average, dBi	5 °   14.8	5 °   15.4	3 °   16.7	3 °   16.7	3 °   17.1
	9 °   14.6	9 °   15.3	6 °   16.6	6 °   16.5	6 °   16.7
Beamwidth, Horizontal Tolerance, degrees	±5.5	±2.7	±5.5	±2.4	±4.6
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.3	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	17	19	20
Front-to-Back Total Power at 180° ± 30°, dB	16	17	23	23	22
CPR at Boresight, dB	25	21	22	24	23
CPR at Sector, dB	12	9	8	10	11

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

SBNH-1D8585C

[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	879.0 N @ 150 km/h 197.6 lbf @ 150 km/h
Wind Speed, maximum	241 km/h   150 mph

## Dimensions

Depth	181.0 mm   7.1 in
Length	2449.0 mm   96.4 in
Width	301.0 mm   11.9 in
Net Weight	25.1 kg   55.3 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	2691.0 mm   105.9 in
Width	471.0 mm   18.5 in
Shipping Weight	43.8 kg   96.6 lb

## Included Products

SBNH-1D8585C

**BSAMNT-1** — 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.

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## \* **Footnotes**

Performance Note	Severe environmental conditions may degrade optimum performance
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