



SBNH-1D65C-SR

Andrew® Dualband Antenna, 698–896 MHz and 1710–2360 MHz, 65° horizontal beamwidth, internal RETs.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	16.1	15.6	17.6	17.8	18.3	18.3
Beamwidth, Horizontal, degrees	66	64	71	65	63	58
Beamwidth, Vertical, degrees	8.8	7.8	5.7	5.2	5.0	4.4
Beam Tilt, degrees	0–11	0–11	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	13	12	16	15	17	18
Front-to-Back Ratio at 180°, dB	30	34	32	29	28	31
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	400	400	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	15.8	15.3	17.3	17.7	18.0	18.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.7	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 15.7	0° 15.3	0° 17.3	0° 17.6	0° 17.9	0° 18.0
	5° 15.9	5° 15.4	4° 17.3	4° 17.8	4° 18.0	4° 18.2
	11° 15.6	11° 15.0	7° 17.2	7° 17.6	7° 18.0	7° 18.2
Beamwidth, Horizontal Tolerance, degrees	±1.2	±2.2	±3.7	±4.3	±3.2	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	13	11	16	15	16	15
Front-to-Back Total Power at 180° ± 30°, dB	25	23	27	25	25	26
CPR at Boresight, dB	30	25	18	19	18	22
CPR at Sector, dB	15	11	15	12	11	5

* 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®
Operating Frequency Band	1710 – 2360 MHz 698 – 896 MHz
Performance Note	Outdoor usage

Mechanical Specifications

Color	Light gray
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SBNH-1D65C-SR

Lightning Protection	dc Ground
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
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	2451.0 mm 96.5 in
Width	301.0 mm 11.9 in
Net Weight	22.5 kg 49.6 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	13.0 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Packed Dimensions

Depth	299.0 mm 11.8 in
Length	2572.0 mm 101.3 in
Width	409.0 mm 16.1 in
Shipping Weight	35.2 kg 77.6 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

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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