Product Specifications

SBNH-1D6565C

Andrew® Dual Band Antenna, 698–896 MHz and 1710–2180 MHz, 65° horizontal beamwidth, internal RET

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal next generation actuator eliminates field installation and defines new standards for reliability

OBSOLETE

This product was discontinued on: December 31, 2014

Replaced By

SBNH-1D65C	Andrew® Dualband Antenna, 698–896 MHz and 1710–2360 MHz, 65° horizontal beamwidth, internal RETs.
SBNH-1D65C-SR	Andrew® Dualband Antenna, 698–896 MHz and 1710–2360 MHz, 65° horizontal beamwidth, internal RETs.

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain, dBi	15.8	16.6	18.0	18.0	18.5
Beamwidth, Horizontal, degrees	72	67	60	59	60
Beamwidth, Vertical, degrees	8.6	7.8	5.6	5.2	4.9
Beam Tilt, degrees	0–11	0–11	0–7	0–7	0–7
USLS (First Lobe), dB	15	15	18	16	16
Front-to-Back Ratio at 180°, dB	25	28	34	31	31
CPR at Boresight, dB	26	20	18	18	18
CPR at Sector, dB	13	8	9	8	9
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	35	35	35	35	35
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	15.6	16.3	17.8	17.9	18.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.3	±0.2	±0.5
Gain by Beam Tilt, average, dBi	0 ° | 15.6	0 ° | 16.2	0 ° | 18.0	0 ° | 17.8	0 ° | 18.0
	6 ° | 15.7	6 ° | 16.4	4 ° | 17.9	4 ° | 17.9	4 ° | 18.2
	11 ° | 15.3	11 ° | 16.1	7 ° | 17.6	7 ° | 17.8	7 ° | 18.1
Beamwidth, Horizontal Tolerance, degrees	±3	±3.1	±3.2	±2	±3.3
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.3	±0.2	±0.4
USLS, beampeak to 20° above beampeak, dB	17	17	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	23	21	30	29	27
CPR at Boresight, dB	26	20	18	18	18
CPR at Sector, dB	13	8	9	8	9

* 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.

Product Specifications

SBNH-1D6565C

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	Aluminum
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	23.5 kg | 51.8 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	292.0 mm | 11.5 in
Length	2572.0 mm | 101.3 in
Width	409.0 mm | 16.1 in
Shipping Weight	34.9 kg | 76.9 lb

Regulatory Compliance/Certifications

Agency	Classification

Product Specifications

SBNH-1D6565C

RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)

Included Products

DB380-5083 — Standard two point mounting system to secure BSA panels to pipes with an OD measuring 2.4-4.5" (60-115mm). Includes locking downtilt brackets and heavy guage pipe brackets to provide superior windload performance.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance