



SBNHH-1D65C

Andrew® Tri-band Antenna, 1 x 698–896 MHz and 2 x 1710–2360 MHz, 65° horizontal beamwidth, internal electrical tilt. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- The values presented on this datasheet have been calculated based on N-P-BASTA White Paper version 9.6 by the NGMN Alliance

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180	2300–2360
Gain by all Beam Tilts, average, dBi	15.8	15.6	17.3	17.8	18.2	18.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5	±0.3	±0.2	±0.5	±0.4
	0 ° 16.0	0 ° 15.8	0 ° 17.3	0 ° 17.7	0 ° 18.0	0 ° 17.9
Gain by Beam Tilt, average, dBi	5 ° 16.0	5 ° 15.8	4 ° 17.4	4 ° 17.8	4 ° 18.2	4 ° 18.2
	11 ° 15.5	11 ° 15.2	7 ° 17.3	7 ° 17.7	7 ° 18.1	7 ° 18.2
Beamwidth, Horizontal, degrees	66	64	70	65	63	58
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.9	±3.4	±3.8	±4.7	±3.7
Beamwidth, Vertical, degrees	8.9	7.8	5.7	5.2	5.0	4.4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.3	±0.2	±0.3	±0.2
Beam Tilt, degrees	0–11	0–11	0–7	0–7	0–7	0–7
USLS, dB	13	14	17	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	26	24	27	25	25	26
CPR at Boresight, dB	29	22	20	21	19	21
CPR at Sector, dB	14	11	13	11	9	5
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

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® tri-band
Band	Multiband
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2360 MHz 698 – 896 MHz

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, maximum	879.0 N @ 150 km/h

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Wind Speed, maximum 197.6 lbf @ 150 km/h
241.4 km/h | 150.0 mph

Dimensions

Depth 181.0 mm | 7.1 in
Length 2438.0 mm | 96.0 in
Width 301.0 mm | 11.9 in
Net Weight 22.5 kg | 49.6 lb

Remote Electrical Tilt (RET) Information

Annual Failure Rate, maximum 0.01%
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 RS-485 Female (daisy chain port ,1) | RS-485 Male (input port, 1)
RET Interface, quantity 1 female | 1 male
RET System Teletilt®

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 2.5 - 4.5 in (64 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

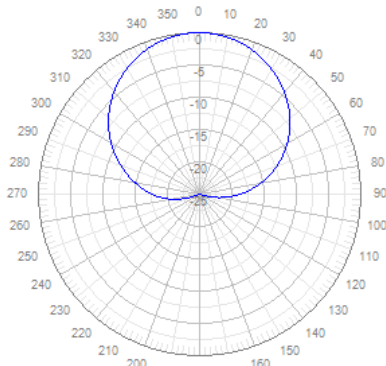
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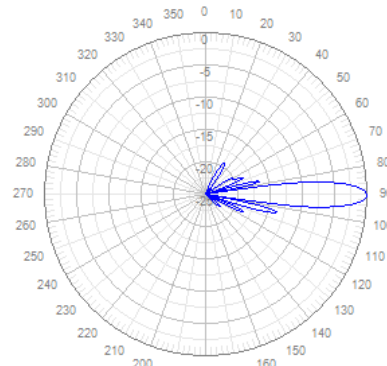


Horizontal Pattern

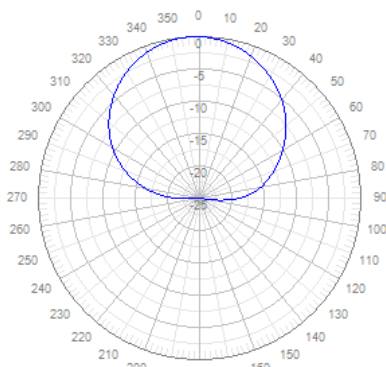
Vertical Pattern



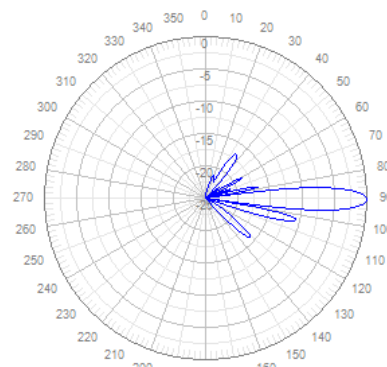
Freq: 750 MHz, Tilt: 0°



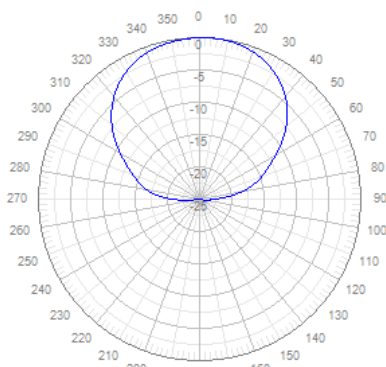
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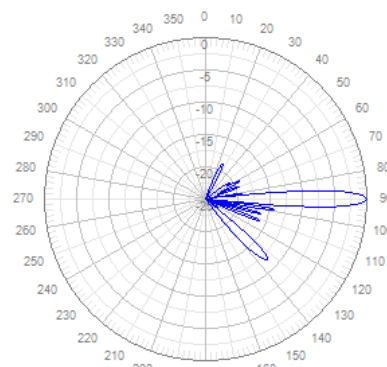
Freq: 850 MHz, Tilt: 0°



Freq: 850 MHz, Tilt: 0°



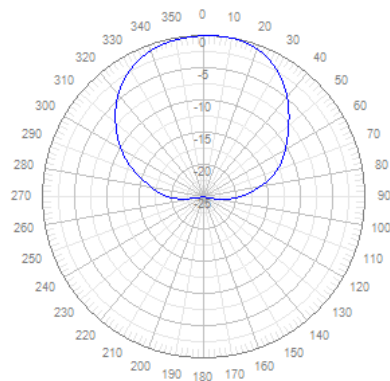
Freq: 1785 MHz, Tilt: 0°



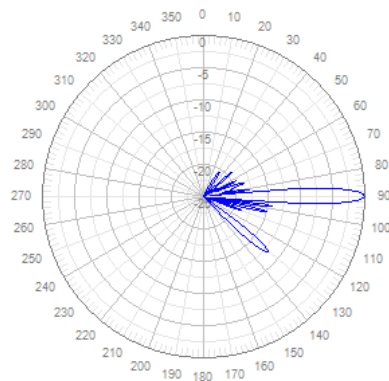
Freq: 1785 MHz, Tilt: 0°

Product Specifications

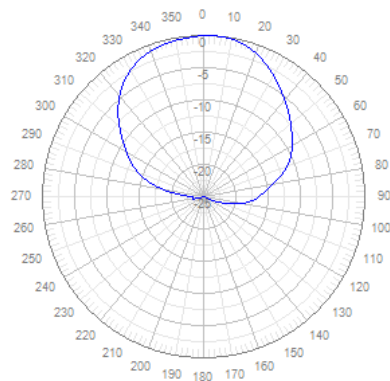
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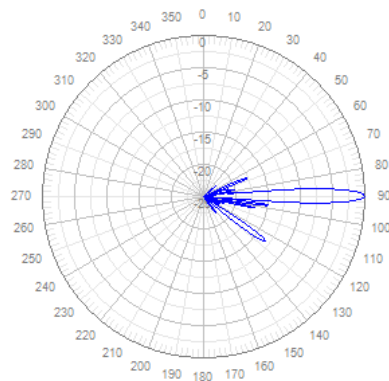
Freq: 1920 MHz, Tilt: 0°



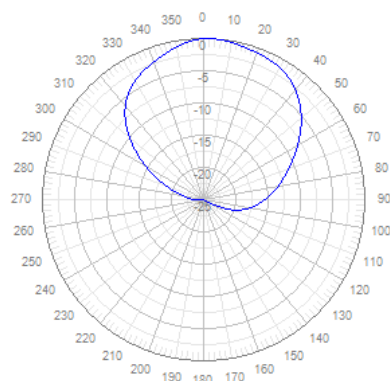
Freq: 1920 MHz, Tilt: 0°



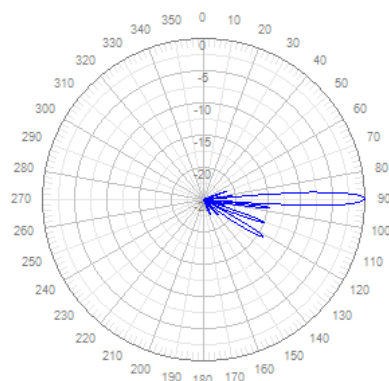
Freq: 2110 MHz, Tilt: 0°



Freq: 2110 MHz, Tilt: 0°



Freq: 2330 MHz, Tilt: 0°



Freq: 2330 MHz, Tilt: 0°

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BSAMNT-1

Wide Profile Antenna Downtilt Mounting Kit for 2.5 - 4.5 in (64 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

General Specifications

Antenna Brand	Andrew®
Mount Type	Pipe mounts
Application	Outdoor
Includes	Brackets Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel

Dimensions

Compatible Diameter, maximum	114.3 mm 4.5 in
Compatible Diameter, minimum	63.5 mm 2.5 in
Net Weight	5.6 kg 12.3 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006

Classification

Compliant
Below Maximum Concentration Value (MCV)

