



SBNH-1D4545A

Andrew® Dual Band One Degree of Freedom SmartBeam® Antenna, 698–896 MHz and 1710–2180 MHz, 45° horizontal beamwidth, RET compatible

- Internal Next Generation Actuator (NGA) eliminates field installation and defines new standards for reliability
- Ultra wideband capability for LTE 700 MHz and 850 MHz cellular technology
- The values presented on this datasheet have been calculated based on N-P-BASTA White Paper version 9.6 by the NGMN Alliance

This product will be discontinued on: December 31, 2014

Replaced By

UNNPX206R3

Argus® Tri-band Antenna, 698–894 MHz and 2 x 1710–2170 MHz, 33° horizontal beamwidth, internal electrical tilt.

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	15.5	15.1	17.8	18.1	18.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.7	±0.7	±0.4	±0.6
	2 ° 15.6	2 ° 15.6	0 ° 17.8	0 ° 18.1	0 ° 18.2
Gain by Beam Tilt, average, dBi	10 ° 15.6	10 ° 15.3	5 ° 17.9	5 ° 18.2	5 ° 18.4
	17 ° 15.3	17 ° 14.4	9 ° 17.6	9 ° 17.9	9 ° 17.9
Beamwidth, Horizontal, degrees	45	38	46	44	42
Beamwidth, Horizontal Tolerance, degrees	±3.4	±3.5	±5.3	±3.8	±3.2
Beamwidth, Vertical, degrees	16.0	14.5	6.4	6.1	5.8
Beamwidth, Vertical Tolerance, degrees	±1	±0.9	±0.3	±0.3	±0.4
Beam Tilt, degrees	2–17	2–17	0–9	0–9	0–9
USLS, dB	16	14	14	15	15
Front-to-Back Total Power at 180° ± 30°, dB	24	20	30	31	31
CPR at Boresight, dB	23	15	21	22	23
CPR at Sector, dB	17	18	8	9	8
Isolation, dB	25	25	25	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	-150	-150	-150	-150	-150
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

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

Mechanical Specifications

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POWERED BY



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	642.0 N @ 150 km/h 144.3 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

Dimensions

Depth	180.0 mm 7.1 in
Length	1440.0 mm 56.7 in
Width	411.0 mm 16.2 in
Net Weight	18.0 kg 39.7 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®

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	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.