NHH-45B-HG-R2B



6-port Next Generation PerforMax[™] sector antenna, 2x 698–896 and 4x 1695–2200 MHz, 45° HPBW, 2x RETs and 2x SBTs

- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Antenna optimized for higher gain with superior radiation efficiency
- Internal SBTs allow remote RET control from the radio over the RF jumper cable
- Interleaved dipole technology results into an attractive, low wind load mechanical package
- Designed to reduce SUB 1 alarm triggers with pattern consistency between low band and mid band
- Superior patterns for enhanced interference mitigation resulting in improved SINR, higher throughput, and more capacity
- Best in class PIM immunity

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector MaterialAluminumRF Connector Interface4.3-10 Female

RF Connector Location

RF Connector Quantity, mid band

RF Connector Quantity, low band

2

RF Connector Quantity, total

6

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3



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Internal RET Low band (1) | Mid band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

Dimensions

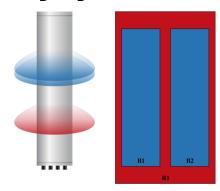
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1829 mm | 72.008 in

Net Weight, without mounting kit 30 kg | 66.139 lb

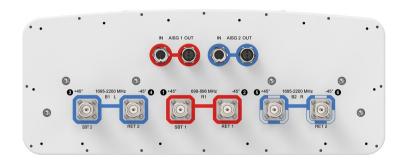
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID	
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxxR1	
B1	1695-2200	3 - 4		AISG2	3	2	CPxxxxxxxxxxxxxxxxB1	
B2	1695-2200	5 - 6	2					

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2200 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 800 W @ 50 °C

Electrical Specifications

	R1	R1	B1-B2	B1-B2	B1-B2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200
RF Port	1-2	1-2	3-6	3-6	3-6
Gain, Maximum, dBi	17.6	18.2	20.5	20.8	21.1
Gain, dBi	17.2	17.9	20.2	20.6	20.9
Beamwidth, Horizontal, degrees	47	43	44	43	42
Beamwidth, Vertical, degrees	12.1	10.8	5.3	5	4.7
Beam Tilt, degrees	0-10	0-10	0-8	0-8	0-8
USLS (First Lobe), dB	17	16	18	19	20
Front-to-Back Ratio at 180°, dB	27	34	35	36	35

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CPR at Boresight, dB	19	20	18	23	19
Isolation, Cross Polarization, dB	25	25	25	25	25
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 at 50°C, maximum, watts	300	300	250	250	250

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,065.0 N @ 150 km/h (239.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 220.0 N @ 150 km/h (49.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,065.0 N @ 150 km/h (239.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 935.0 N @ 150 km/h (210.2 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 526 mm | 20.709 in

 Depth, packed
 283 mm | 11.142 in

 Length, packed
 1996 mm | 78.583 in

 Weight, gross
 43.5 kg | 95.901 lb

Regulatory Compliance/Certifications

AgencyClassificationUK-ROHSCompliant

Included Products

BSAMNT-3 – 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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

