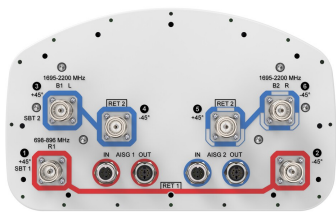


NHH-65A-HG-R2B



6-port Next Generation PerforMax™ sector antenna, 2x 698–896 and 4x 1695–2200 MHz, 65° HPBW, 2x RETs and 2x SBTs

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

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Copper Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	4
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
Internal RET	Low band (1) Mid band (1)

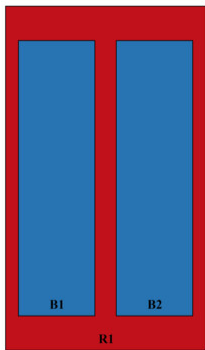
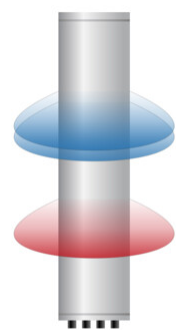
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Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1413 mm 55.63 in
Net Weight, without mounting kit	17 kg 37.479 lb

Array Layout

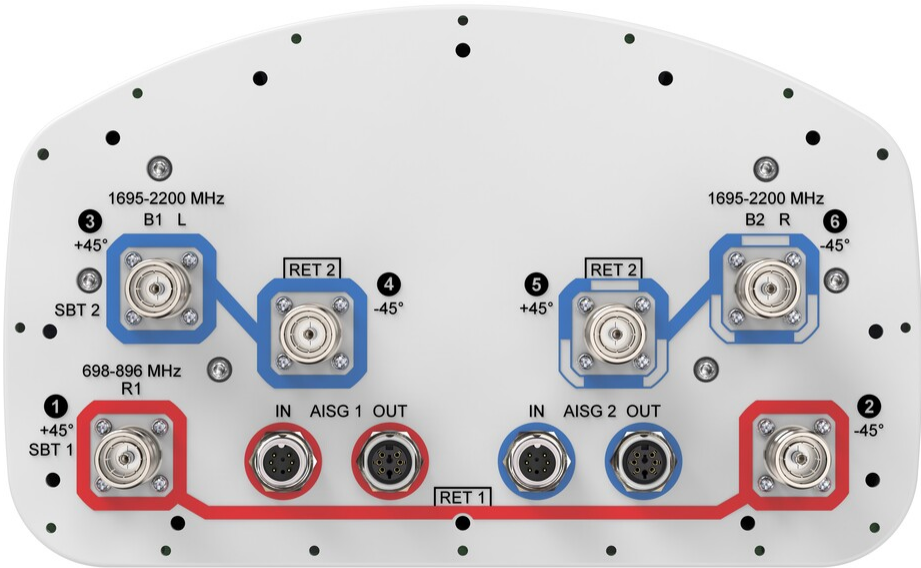


ArrayID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	3	2	CPxxxxxxxxxxxxB1
B2	1695-2200	5 - 6					

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

Port Configuration

NHH-65A-HG-R2B



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 698 – 896 MHz
Polarization	±45°

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	3,4,5,6	3,4,5,6	3,4,5,6
Gain, Maximum, dBi	14.8	14.7	17.6	18.2	18.2
Gain, dBi	14.4	14.3	17.2	18	17.9
Beamwidth, Horizontal, degrees	66	63	66	61	64
Beamwidth, Vertical, degrees	16.4	14.7	7.1	6.5	6.3
Beam Tilt, degrees	0–18	0–18	0–10	0–10	0–10
USLS (First Lobe), dB	19	15	18	20	19
Front-to-Back Ratio at 180°, dB	25	31	35	34	29
CPR at Boresight, dB	20	17	20	22	22
Isolation, Cross Polarization,	25	25	25	25	25

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dB					
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	206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	169.0 N @ 150 km/h (38.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	208.0 N @ 150 km/h (46.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	380 mm 14.961 in
Depth, packed	295 mm 11.614 in
Length, packed	1537 mm 60.512 in
Weight, gross	27.6 kg 60.848 lb

Regulatory Compliance/Certifications

Agency	Classification
UK-ROHS	Compliant

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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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