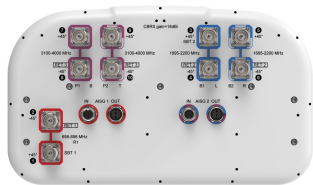


# NHHSS-55C-HG-R3B



10-port Next Generation PerforMax™ Sector Antenna, 2x 698–896, 4x 1695–2200 and 4x 3100–4000 MHz, 55° HPBW, 3x RETs and 2x SBTs

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

## General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum   Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

## 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

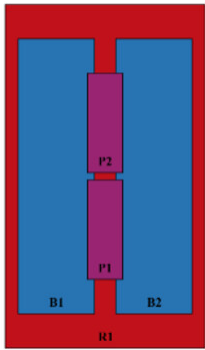
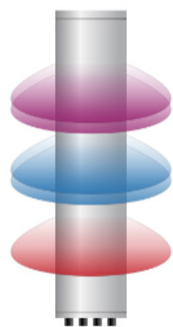
# NHHSS-55C-HG-R3B

Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1   Port 3
Internal RET	High band (1)   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 (Single RET)

## Dimensions

Width	395 mm   15.551 in
Depth	228 mm   8.976 in
Length	2438 mm   95.984 in
Net Weight, antenna only	36 kg   79.366 lb

## Array Layout

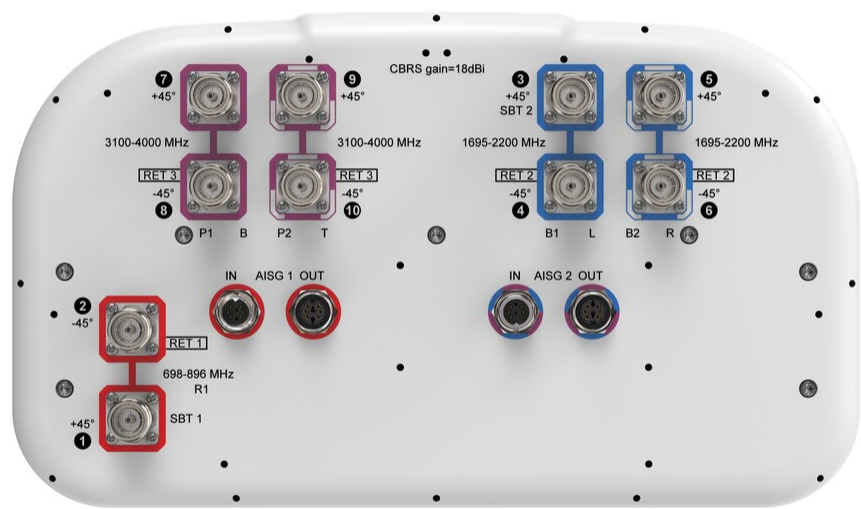


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	3	2	CPxxxxxxxxxxxxxxxxB1
B2	1695-2200	5 - 6					
P1	3100-4000	7 - 8	3	AISG2	3	2	CPxxxxxxxxxxxxxxxxP1
P2	3100-4000	9 - 10					

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

## Port Configuration

# NHHSS-55C-HG-R3B



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz   3100 – 4000 MHz   698 – 896 MHz
Polarization	±45°

## Electrical Specifications

	R1	R1	B1,B2	B1,B2	B1,B2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	3100–3550	3550–3700	3700–4000
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	7,8,9,10	7,8,9,10	7,8,9,10
Gain, dBi	17.2	17.1	18.9	19.2	19.3	16.9	17.1	17.2
Beamwidth, Horizontal, degrees	58	56	58	58	57	65	55	54
Beamwidth, Vertical, degrees	8.8	7.8	5.1	4.8	4.7	5.9	5.4	5.2
Beam Tilt, degrees	0–11	0–11	0–7	0–7	0–7	0–10	0–10	0–10
USLS (First Lobe), dB	16	17	16	16	16	15	16	16
Front-to-Back Ratio at 180°, dB	27	30	27	28	30	30	29	28

# NHHSS-55C-HG-R3B

CPR at Boresight, dB	20	17	22	24	21	15	15	16
Isolation, Cross Polarization, dB	25	25	25	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	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	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	100	100	100

## Mechanical Specifications

Wind Loading @ Velocity, frontal	382.0 N @ 150 km/h (85.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	346.0 N @ 150 km/h (77.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	768.0 N @ 150 km/h (172.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	437.0 N @ 150 km/h (98.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	505 mm   19.882 in
Depth, packed	386 mm   15.197 in
Length, packed	2570 mm   101.181 in
Weight, gross	51.5 kg   113.538 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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