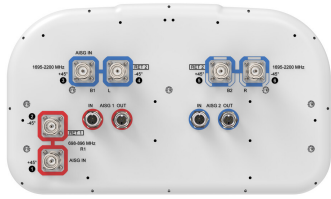


# NHH-55C-R2B



6-port sector antenna, 2x 698–896, and 4x 1695–2200 55° HPBW, 2x RETs.

- Utilizes Pattern Shaping Technology to reduce cell overlap and maximize SINR (Signal to Interference and Noise Ratio)
- Superior SPR (Sector Power Ratio) for best-in-class data throughput rates
- Excellent pattern overlay across all bands
- Low band and mid band performance mirrors performance of the equivalent ten port antenna
- Internal SBTs on low and mid band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one MB RET. Both mid band arrays are controlled by one RET to ensure same tilt level for best 4x4 MIMO performance
- Use optional BSAMNT-SBS-2-2 for side-by-side mounting of two hex and/or ten port 55° antennas

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return

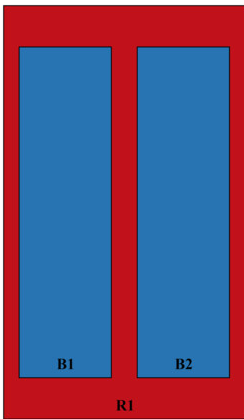
# NHH-55C-R2B

<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 3
<b>Internal RET</b>	Low band (1)   Mid band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	395 mm   15.551 in
<b>Depth</b>	228 mm   8.976 in
<b>Length</b>	2438 mm   95.984 in
<b>Net Weight, antenna only</b>	31.6 kg   69.666 lb

## Array Layout

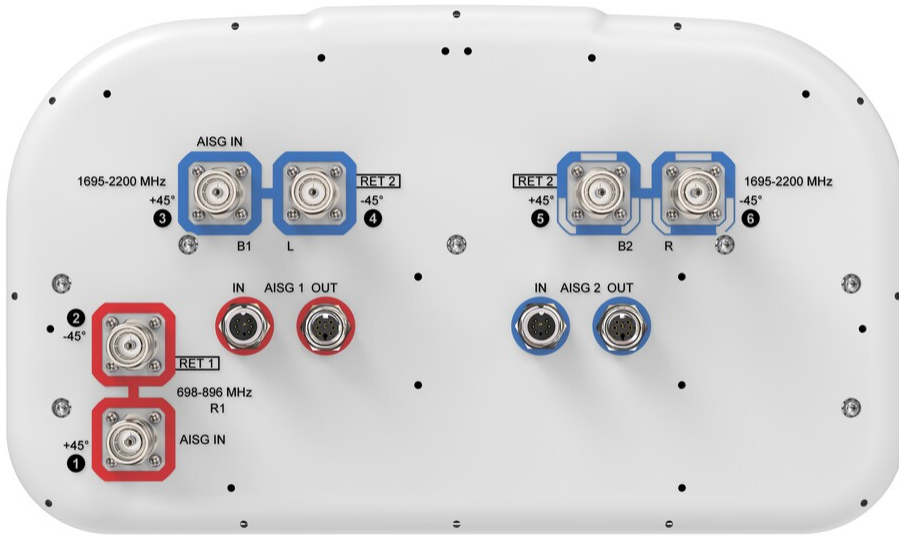


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	CPxxxxxxxxxxxxB1
B2	1695-2200	5 - 6			

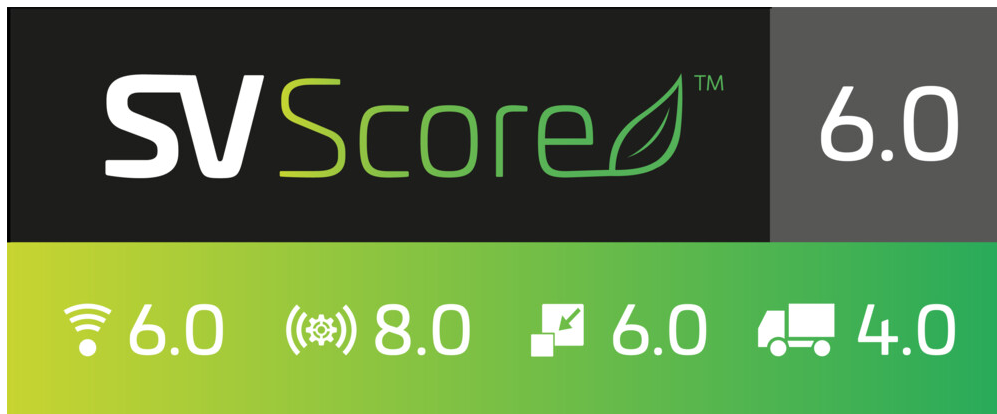
(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration

# NHH-55C-R2B



## Logo Image



## Electrical Specifications

# NHH-55C-R2B

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2200 MHz   698 – 896 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

	<b>R1</b>	<b>R1</b>	<b>B1,B2</b>	<b>B1,B2</b>	<b>B1,B2</b>
<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>
<b>RF Port</b>	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6
<b>Gain, dBi</b>	16.7	16.6	17.8	18	18.5
<b>Beamwidth, Horizontal, degrees</b>	56	52	55	57	56
<b>Beamwidth, Vertical, degrees</b>	8.7	7.8	5.5	5.1	4.8
<b>Beam Tilt, degrees</b>	0–11	0–11	0–7	0–7	0–7
<b>USLS (First Lobe), dB</b>	15	16	19	18	17
<b>Front-to-Back Ratio at 180°, dB</b>	32	31	39	37	37
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>
<b>Gain by all Beam Tilts, average, dBi</b>	16.4	16.5	17.5	17.8	18.1
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.3	±0.6	±0.3	±0.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±3	±2	±3	±5	±6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.6	±0.4	±0.4	±0.2	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	15	13	14	16	15
<b>Front-to-Back Total Power at</b>	26	26	28	27	28

# NHH-55C-R2B

180° ± 30°, dB

CPR at Boresight, dB                      21                      25                      19                      23                      24

## Mechanical Specifications

<b>Effective Projective Area (EPA), frontal</b>	0.36 m <sup>2</sup>   3.875 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.32 m <sup>2</sup>   3.444 ft <sup>2</sup>
<b>Wind Loading @ Velocity, frontal</b>	382.0 N @ 150 km/h (85.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	346.0 N @ 150 km/h (77.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	768.0 N @ 150 km/h (172.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	437.0 N @ 150 km/h (98.2 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	505 mm   19.882 in
<b>Depth, packed</b>	386 mm   15.197 in
<b>Length, packed</b>	2570 mm   101.181 in
<b>Weight, gross</b>	47.4 kg   104.499 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## 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