NHHSS-55C-HG-R3B



10-port Next Generation High Performance Sector Antenna, 2x 698-896, 4x 1695-2200 and 4x 3100-4000 MHz, 55° HPBW, 3x RETs.

- Designed to reduce SUB 1 alarm triggers with pattern consistency between low band and mid band
- Enhanced interference mitigation for improved SINR and throughput
- 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 improved radiation efficiency
- Powered by ANDREW's next generation high-efficiency SEED® technology

General Specifications

Band

Sector **Antenna Type** Multiband

Color Light Gray (RAL 7035)

Grounding Type RF connector inner conductor and body grounded to reflector and mounting

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

4 RF Connector Quantity, high band

RF Connector Quantity, mid band 4

RF Connector Quantity, low band 2

RF Connector Quantity, total 10

Remote Electrical Tilt (RET) Information

CommRET v2 **RET Hardware**

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

2 female | 2 male **RET Interface, quantity**

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 3



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

Power Consumption, active state, maximum $10~\mathrm{W}$ Power Consumption, idle state, maximum $2~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

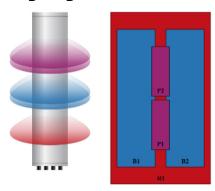
 Width
 395 mm | 15.551 in

 Depth
 228 mm | 8.976 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 36 kg | 79.366 lb

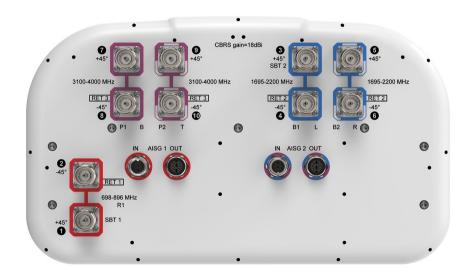
Array Layout



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	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
B1	1695-2200	3 - 4	,	AISG2	3	2	CD		
B2	1695-2200	5 - 6	2				CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
P1	3100-4000	7 - 8		AISG2	3	2	CPxxxxxxxxxxxxxxxP1		
P2	3100-4000	9 - 10	3						

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

Port Configuration



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	0 1850-1990	0 1920-220	0 3100-355	0 3550-370	0 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

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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.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Agency

ROHS

UK-ROHS

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Classification

Compliant

Compliant

CE Compliant with the relevant CE product directives CHINA-ROHS Below maximum concentration value ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system REACH-SVHC Compliant as per SVHC revision on www.andrew.com/ProductCompliance

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