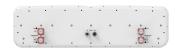
NN-45C-HG-R1B



4-port Next Generation PerforMax™ sector antenna, 4x 698–896 MHz, 45° HPBW, 1x RET and 1x SBT

- 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
- Antenna optimized for higher gain with superior radiation efficiency
- Best in class PIM immunity
- Internal SBT allows remote RET control from the radio over the RF jumper cable
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Interleaved dipole technology results into an attractive, low wind load mechanical package

General Specifications

Antenna Type Sector with internal RET and bias tee

Band Single band

Color Light Gray (RAL 7035)

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

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator MaterialAluminumReflector MaterialAluminum

RF Connector Interface 4.3-10 Female

RF Connector Location

RF Connector Quantity, low band

4

RF Connector Quantity, total

4

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc
Internal Bias Tee Port 1

Internal RET Low band (1)

ANDREW® an Amphenol company

NN-45C-HG-R1B

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

Protocol 3GPP/AISG 2.0

Dimensions

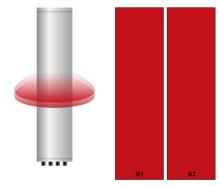
 Width
 749 mm | 29.488 in

 Depth
 197 mm | 7.756 in

 Length
 2438 mm | 95.984 in

Net Weight, without mounting kit 60 kg | 132.277 lb

Array Layout



Array ID	Frequency (MHz)	1000	RET (SRET)		SBT RF PORT	SBT No.	RET UID
R1	698-896	1 - 2					60
R2	698-896	3 - 4		AISG1			CPxxxxxxxxxxxxxxxR1

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 698 – 896 MHz

 ${\bf Polarization} \hspace{2.5cm} \pm 45^{\circ}$ ${\bf Total Input Power, maximum} \hspace{2.5cm} 600 \ W$

Electrical Specifications

	R1,R2	R1,R2
Frequency Band, MHz	698-806	806-896
RF Port	1-4	1-4
Gain, Maximum, dBi	18.1	18.4
Gain, dBi	17.8	18.2
Beamwidth, Horizontal, degrees	47	45
Beamwidth, Vertical, degrees	9.1	8

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NN-45C-HG-R1B

Beam Tilt, degrees	0-10	0-10
USLS (First Lobe), dB	16	15
Front-to-Back Ratio at 180°, dB	32	34
CPR at Boresight, dB	14	17
Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	300	300

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 2,397.0 N @ 150 km/h (538.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 2,397.0 N @ 150 km/h (538.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 2,397.0 N @ 150 km/h (538.9 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 910 mm | 35.827 in

 Depth, packed
 356 mm | 14.016 in

 Length, packed
 3201 mm | 126.024 in

 Weight, gross
 96 kg | 211.644 lb

Regulatory Compliance/Certifications

Agency Classification
UK-ROHS Compliant

Included Products

BSAMNT-9 – 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.

BSAMNT-M9 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

