

# NN-65C-HG-R2BD-V2



## 4-port Next Generation PerforMax™ sector antenna, 4x 698–896, 65° HPBW, 2x RETs

- 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 SBTs allow 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
- The low band array is internally diplexed for an independent tilt at 700 MHz and 850 MHz

### General Specifications

Antenna Type	Sector with internal RET and bias tee
Band	Single band
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
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 (2)
Power Consumption, active state, maximum	10 W

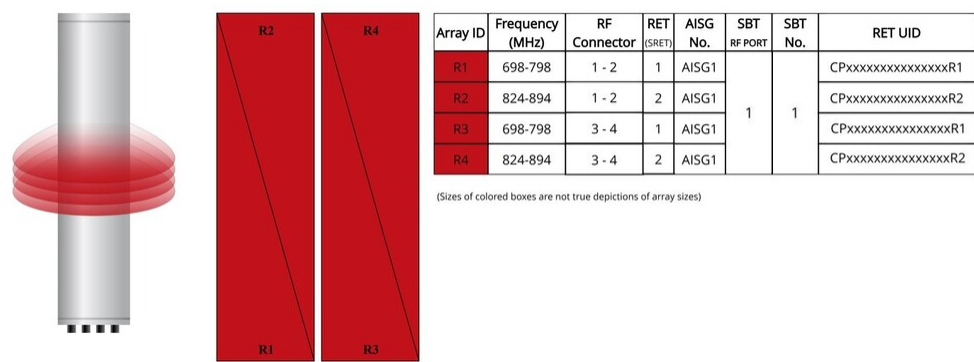
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Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

## Dimensions

Width	640 mm   25.197 in
Depth	235 mm   9.252 in
Length	2438 mm   95.984 in
Net Weight, antenna only	68 kg   149.914 lb

## Array Layout



## Port Configuration

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## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	400 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2
Frequency Band, MHz	698–798	824–894
RF Port	1-4	1-4
Gain, dBi	15.9	16.2
Beamwidth, Horizontal, degrees	63	60
Beamwidth, Vertical, degrees	8.9	8.1
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	15	15
Front-to-Back Ratio at 180°, dB	32	33
CPR at Boresight, dB	20	18

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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 at 50°C, maximum, watts	150	150

## Mechanical Specifications

Wind Loading @ Velocity, frontal	986.0 N @ 150 km/h (221.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,256.0 N @ 150 km/h (282.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	616.0 N @ 150 km/h (138.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	752 mm   29.606 in
Depth, packed	382 mm   15.039 in
Length, packed	3201 mm   126.024 in
Weight, gross	105 kg   231.485 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
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