# NN-65B-R2



### 4-port sector antenna, 4x 698-896 MHz, 65° HPBW, 2x RET

- Great solution to maximize network coverage and capacity
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

#### **OBSOLETE**

This product was discontinued on: November 30, 2023

Replaced By:

RR-65B-R2 4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET

### General Specifications

Antenna Type Sector

**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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator 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 Voltage10-30 VdcInternal RETLow band (2)

COMMSCOPE®

# NN-65B-R2

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1828 mm | 71.969 in

 Net Weight, without mounting kit
 33 kg | 72.752 lb

**Electrical Specifications** 

**Impedance** 50 ohm

**Operating Frequency Band** 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

## **Electrical Specifications**

Frequency Band, MHz	698-806	806-896
Gain, dBi	14.5	14.9
Beamwidth, Horizontal, degrees	66	62
Beamwidth, Vertical, degrees	12	10.8
Beam Tilt, degrees	2-14	2-14
USLS (First Lobe), dB	19	21
Front-to-Back Ratio at 180°, dB	31	31
Isolation, Cross Polarization, dB	25	25
VSWR   Return loss, dB	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300

### Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896
Gain by all Beam Tilts, average, dBi	14.1	14.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.7
Gain by Beam Tilt, average, dBi	2° 14.2 8° 14.2 14° 13.8	2° 14.6 8° 14.6 14° 14.1

Page 2 of 3



# NN-65B-R2

Beamwidth, Horizontal Tolerance, degrees	±4.2	±4.8
Beamwidth, Vertical Tolerance, degrees	±1	±0.9
USLS, beampeak to 20° above beampeak, dB	18	18
Front-to-Back Total Power at 180° ± 30°, dB	22	21
CPR at Boresight, dB	23	23
CPR at Sector, dB	10	8

## Mechanical Specifications

Mechanical Tilt Range 0°-17°

 Wind Loading @ Velocity, frontal
 685.0 N @ 150 km/h (154.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 232.0 N @ 150 km/h (52.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 889.0 N @ 150 km/h (199.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 564.0 N @ 150 km/h (126.8 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2015 mm | 79.331 in

 Weight, gross
 46.6 kg | 102.735 lb

## Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



#### 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

