

NN-65A-R2

4-port sector antenna, 4x 698–896 MHz, 65° HPBW, 2x RET(ATM200)

- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- 4 port low band antenna for 4X MIMO applications and high data throughput

OBSOLETE

This product was discontinued on: March 27, 2020

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
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	4
RF Connector Quantity, total	4

Dimensions

Width	682 mm 26.85 in
Depth	181 mm 7.126 in
Length	1394 mm 54.882 in
Net Weight, without mounting kit	30.3 kg 66.8 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	600 W @ 50 °C

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Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	13.4	13.9
Beamwidth, Horizontal, degrees	62	62
Beamwidth, Vertical, degrees	16.3	14.6
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	18	19
Front-to-Back Ratio at 180°, dB	31	30
Isolation, Cross Polarization, dB	30	30
VSWR Return loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port at 50°C, maximum, watts	350	350

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896
Gain by all Beam Tilts, average, dBi	14.6	15
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3
Gain by Beam Tilt, average, dBi	0° 14.6 5° 14.6 10° 14.6	0° 14.9 5° 15.0 10° 14.9
Beamwidth, Horizontal Tolerance, degrees	±1.7	±2.1
Beamwidth, Vertical Tolerance, degrees	±1.1	±0.7
USLS, beampeak to 20° above beampeak, dB	23	19
Front-to-Back Total Power at 180° ± 30°, dB	21	20
CPR at Boresight, dB	25	21
CPR at Sector, dB	13	13

Mechanical Specifications

Wind Loading @ Velocity, frontal	1,003.0 N @ 150 km/h (225.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	143.0 N @ 150 km/h (32.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,177.0 N @ 150 km/h (264.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	852 mm 33.543 in
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Depth, packed	351 mm 13.819 in
Length, packed	1746 mm 68.74 in
Weight, gross	49.1 kg 108.247 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
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