NN-65A-HG-R1B-V2

4-port Next Generation PerforMax™ sector antenna, 4x 698–896, 65° HPBW, 1x RET and 1x SBT

- Antenna optimized for higher gain with superior radiation efficiency
- Powered by Andrew's SEED® technology (Sustainable Energy Efficient Design)
- Superior patterns for enhanced interference mitigation resulting in improved SINR, higher throughput, and more capacity
- Best in class PIM immunity
- Internal SBTs allow remote RET control from the radio over the RF jumper cable

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 (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W

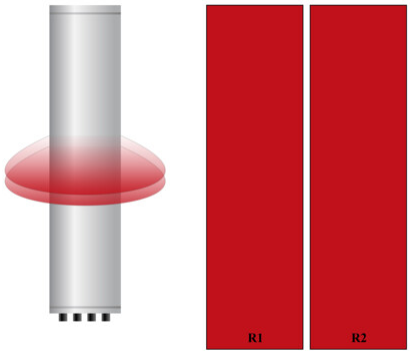
NN-65A-HG-R1B-V2

Protocol	3GPP/AISG 2.0

Dimensions

Width	640 mm | 25.197 in
Depth	235 mm | 9.252 in
Length	1499 mm | 59.016 in
Net Weight, without mounting kit	35 kg | 77.162 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	CPxxxxxxxxxxxxxxxR1
R2	698-896	3 - 4					

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

Port Configuration

Electrical Specifications

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

NN-65A-HG-R1B-V2

Electrical Specifications

	R1,R2	R1,R2
Frequency Band, MHz	**698–806**	**806–896**
RF Port	1-4	1-4
Gain, Maximum, dBi	15.3	15.3
Gain, dBi	14.9	15.1
Beamwidth, Horizontal, degrees	65	62
Beamwidth, Vertical, degrees	14.3	12.9
Beam Tilt, degrees	2–16	2–16
USLS (First Lobe), dB	15	15
Front-to-Back Ratio at 180°, dB	30	29
CPR at Boresight, dB	18	18
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	300	300

Mechanical Specifications

Wind Loading @ Velocity, frontal	579.0 N @ 150 km/h (130.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	162.0 N @ 150 km/h (36.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	739.0 N @ 150 km/h (166.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	752 mm | 29.606 in
Depth, packed	387 mm | 15.236 in
Length, packed	1654 mm | 65.118 in
Weight, gross	50.5 kg | 111.333 lb

Regulatory Compliance/Certifications

Agency	Classification
UK-ROHS	Compliant

NN-65A-HG-R1B-V2

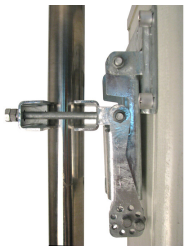
Included Products

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

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	115 mm | 4.528 in
Compatible Diameter, minimum	60 mm | 2.362 in
Weight, net	6.2 kg | 13.669 lb

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, gross	6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
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
ROHS	Compliant
UK-ROHS	Compliant