

2NN-33C-HG-R2B



8-port Next Generation PerforMax™ Superior Coverage and Capacity multibeam antenna, 8x 698–894 MHz, 33° HPBW, 8ft, 2x RET

- Ideal 4T4R low band antenna for use with an FD mMIMO antenna
- 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 SBT allows remote RET control from the radio over the RF jumper cable

General Specifications

Antenna Type	Multi-beam
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	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, low band	8

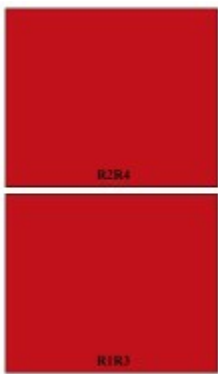
Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 5
Internal RET	Low band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W

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Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	749 mm 29.488 in
Depth	197 mm 7.756 in
Length	2438 mm 95.984 in
Net Weight, without mounting kit	61.8 kg 136.246 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SAET)	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	698-894	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxxxR1
R2	698-894	3 - 4					
R3	698-894	5 - 6	2	AISG2	5	2	CPxxxxxxxxxxxxxxxxR3
R4	698-894	7 - 8					

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
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Operating Frequency Band	698 – 894 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

Electrical Specifications

	R1-R4	R1-R4
Frequency Band, MHz	698–798	824–894
RF Port	1-8	1-8
Gain, Maximum, dBi	16.8	17.5
Gain, dBi	16.3	17.2
Beam Centers, Horizontal, degrees	±27	±27
Beamwidth, Horizontal, degrees	33	30
Beamwidth, Vertical, degrees	18.9	16.9
Beam Tilt, degrees	2–16	2–16
Horizontal Sidelobe, dB	20	21
USLS (First Lobe), dB	17	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	27	33
CPR at Boresight, dB	21	22
Isolation, Cross Polarization, dB	25	25
Isolation, Beam to Beam, dB	17	17
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	200	200

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	915 mm 36.024 in
Depth, packed	357 mm 14.055 in

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Length, packed	3202 mm 126.063 in
Weight, gross	98.4 kg 216.935 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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