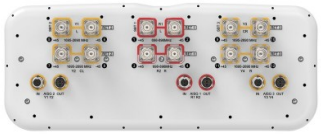
NNV4-65S-HG-R3B



12-port Next Generation PerforMax™ Superior Coverage and Capacity antenna, 4x 698-896 and 8x 1695–2690 MHz, 65° HPBW, 2 ft, 3x RET

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

General Specifications

Antenna Type	Small Cell
Band	Multiband
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, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	3 female | 3 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 5 | Port 9
Internal RET	Low band (1) | Mid band (2)

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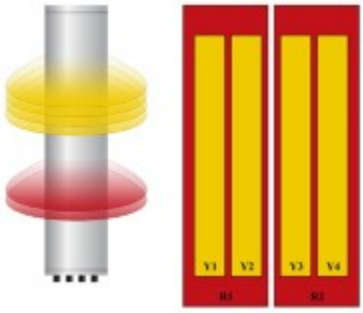
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	610 mm | 24.016 in
Net Weight, without mounting kit	15.2 kg | 33.51 lb

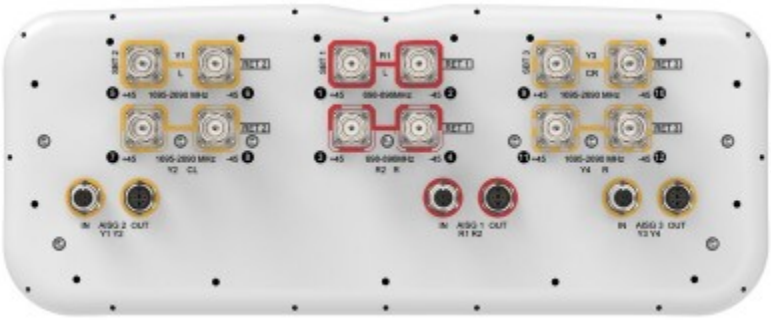
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET	AISG No.	SBT	SBT No.	RET UID
R1	698-896	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxR1
R2	698-896	3 - 4					
Y1	1695-2690	5 - 6	2	AISG2	5	2	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8					
Y3	1695-2690	9 - 10	3	AISG3	9	3	CPxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12					

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

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Electrical Specifications

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	**698–806**	**824–896**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2690**
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, Maximum, dBi	10.6	10.8	14.4	14.9	15.6	15.9
Gain, dBi	10	10	13.4	14	14.5	15.1
Beamwidth, Horizontal, degrees	81	76	68	62	60	59
Beamwidth, Vertical, degrees	40	36	16	15	14	12
Beam Tilt, degrees	8-18	8-18	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	13	12	12	12	14
Front-to-Back Ratio at 180°, dB	29	25	29	30	30	29
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	18	18	21	23	23	22
CPR at Boresight, dB	24	20	15	16	18	18
Isolation, Cross Polarization, dB	25	25	25	25	25	25
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	100	100	100	100

Mechanical Specifications

Wind Loading @ Velocity, frontal	199.0 N @ 150 km/h (44.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	52.0 N @ 150 km/h (11.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	239.0 N @ 150 km/h (53.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	137.0 N @ 150 km/h (30.8 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	797 mm | 31.378 in
Weight, gross	27.7 kg | 61.068 lb

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NNV4-65S-HG-R3B

Regulatory Compliance/Certifications

Agency	Classification
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

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