NNH4-65A-R6D



12-port sector antenna, 4x 698-894 and 8x 1695-2360 MHz, 65° HPBW, 6x RET.

- Features broadband Low Band (698-894 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for 700 and 850 MHz, AWS, PCS and WCS applications
- The Low Band array is diplexed, providing independent tilt for the 700 and 850 MHz bands for 4T4R (4X MIMO) capability when used with Dual Band radios
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics

This product will be discontinued on: December 31, 2025

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum **RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, high band 8

RF Connector Quantity, mid band 0
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

Input Voltage 10-30 Vdc



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Internal RET High band (4) | Low band (2)

Power Consumption, active state, maximum 8 W Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

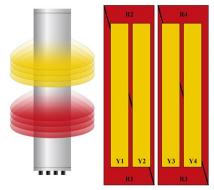
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

 Net Weight, antenna only
 39.1 kg | 86.201 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID	
R1	698-798	1 - 2		11551	60	
R3	698-798	3 - 4	1 AISG1		CPxxxxxxxxxxxXMM.1	
R2	824-894	1 - 2	,	AICC1	CD	
R4	824-894	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2	
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3	
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxMM.4	
Y3	1695-2360	9 - 10	5	AISG1	CPxxxxxxxxxxxMM.5	
Y4	1695-2360	11 - 12	6	AISG1	CPxxxxxxxxxxxxMM.6	

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 798 MHz | 824 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

	R1,R3	R2,R4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	12.5	12.9	16.3	17.1	17.6	18.2
Beamwidth, Horizontal, degrees	75	67	72	69	64	59
Beamwidth, Vertical, degrees	16.8	14.5	7.4	7	6.6	5.9
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	19	15	18	19	23
Front-to-Back Ratio at 180°, dB	28	27	32	34	35	35
Isolation, Cross Polarization,	25	25	25	25	25	25

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dB						
Isolation, Inter-band, dB	25	25	25	25	25	25
VSWR Return loss, dB	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	150	150	250	250	250	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	342.0 N @ 150 km/h (76.9 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	1686 mm 66.378 in
Weight, gross	52.8 kg 116.404 lb

Regulatory Compliance/Certifications

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

Included Products

BSAMNT-4	_	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-4



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

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency Classification 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

