

8-port sector antenna, 4x 617-806 and 4x 1695–2360 MHz, 65° HPBW, 3x RET, 600 MHz-Ready Antenna Technology

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

NNHH-65C-R4 8-port sector antenna, 4x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 4x RETs

General Specifications

Antenna Type Sector

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 | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material Fiberglass, UV resistant

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, high band 4

RF Connector Quantity, mid band 0

RF Connector Quantity, low band 4

RF Connector Quantity, total 8

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

ANDREW®
an Amphenol company

Internal RET High band (2) | Low band (1)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

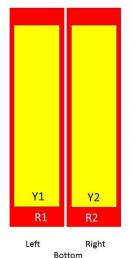
 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 2437 mm | 95.945 in

Net Weight, without mounting kit 57.9 kg | 127.647 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID	
R1	617-806	1-2	1	ANxxxxxxxxxxxxxxxx1	
R2	617-806	3-4	1		
Y1	1695-2360	5-6	2	ANxxxxxxxxxxxxx2	
Y2	1695-2360	7-8	3	ANxxxxxxxxxxxx3	

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 617 – 806 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	617-698	698-806	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	15.4	15.8	17.9	18.4	18.8	19.6
Beamwidth, Horizontal, degrees	66	61	64	65	64	56
Beamwidth, Vertical, degrees	10.2	9.2	5.7	5.3	4.9	4.4
Beam Tilt, degrees	2-13	2-13	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	19	19	19	22
Front-to-Back Ratio at 180°, dB	33	31	38	41	40	38
Isolation, Cross Polarization, dB	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28
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

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PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	250	250	250	250	250	200
maximum, watts						

Mechanical Specifications

Mechanical Tilt Range 0°-10°

 Wind Loading @ Velocity, frontal
 1,055.0 N @ 150 km/h (237.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,433.0 N @ 150 km/h (322.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 82 kg | 180.779 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
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant/Exempted



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.

BSAMNT-M4 – 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



