

# 8-port sector antenna, 4x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RETs

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Mid band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

#### This product will be discontinued on: December 31, 2025

#### General Specifications

Sector
Multiband
Light Gray (RAL 7035)
RF connector inner conductor and body grounded to reflector and mounting bracket
Outdoor usage
Fiberglass, UV resistant
Aluminum
4.3-10 Female
Bottom
0
4
4
8

#### 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 RET	Low band (1)   Mid band (1)

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### NNHH-65C-R2

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	2438 mm   95.984 in
Net Weight, antenna only	37 kg   81.571 lb

#### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxXMM.1
R2	698-896	3 - 4		AISGI	
Y1	1695-2360	5 - 6	2	AISG1	CPxxxxxxxxxxxXMM.2
Y2	1695-2360	7 - 8	2	AISGI	CPXXXXXXXXXXXXXXIVIIVI.2

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

### Port Configuration



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#### **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz   698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

#### **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
Beamwidth, Horizontal, degrees	75	69	63	56	58	62
Beamwidth, Vertical, degrees	9.9	8.7	5.4	5	4.8	4.3
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	21	18	17	18	20	20
Front-to-Back Ratio at 180°, dB	29	28	36	40	38	35
Front-to-Back Total Power at 180° ± 30°, dB	20	21	29	32	31	28

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## NNHH-65C-R2

Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, 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	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

#### Mechanical Specifications

Wind Loading @ Velocity, frontal	865.0 N @ 150 km/h (194.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,037.0 N @ 150 km/h (233.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	595.0 N @ 150 km/h (133.8 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	2625 mm   103.347 in
Weight, gross	50.6 kg   111.554 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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



#### \* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance



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