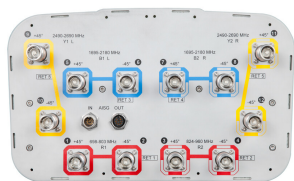


# JCHHTT-65B-R5



12-port sector antenna, 2x 698–803, 2x 824–960, 4x 1695–2180 and 4x 2490-2690 MHz, 65° HPBW, 5x RET. 2500MHz arrays share the same motor.

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## OBSOLETE

This product was discontinued on: February 28, 2025

## General Specifications

Antenna Type	Sector
Band	Multiband
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
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

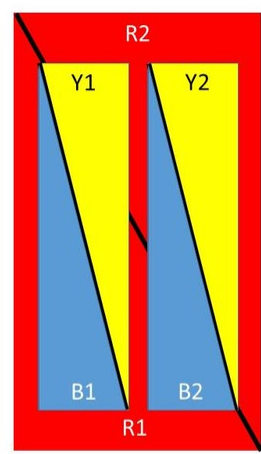
## Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v1
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male
Input Voltage	10–30 Vdc
Internal RET	High band (3)   Low band (2)
Power Consumption, idle state, maximum	1 W

# JCHHTT-65B-R5

Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	350 mm   13.78 in
Depth	208 mm   8.189 in
Length	1828 mm   71.969 in
Net Weight, without mounting kit	32.2 kg   70.989 lb

## Array Layout



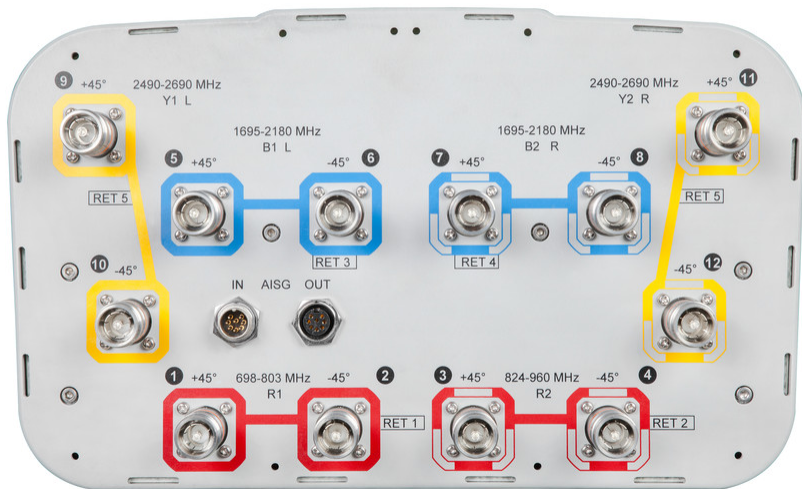
Left      Right  
Bottom

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	824-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxxY1
Y2	2490-2690	11-12		

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

## Port Configuration

# JCHHTT-65B-R5



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2180 MHz   2490 – 2690 MHz   698 – 803 MHz   824 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	698–803	824–960	1695–1920	1920–2180	2490–2690
Gain, dBi	14.6	15.3	17.5	18	17.7
Beamwidth, Horizontal, degrees	68	63	62	62	63
Beamwidth, Vertical, degrees	12.2	10.2	5.5	5	4.2
Beam Tilt, degrees	2–14	2–14	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	19	20	21
Front-to-Back Ratio at 180°, dB	34	32	30	35	31
Isolation, Cross Polarization, dB	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30

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<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	250	250	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	638.0 N @ 150 km/h (143.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	456 mm   17.953 in
<b>Depth, packed</b>	357 mm   14.055 in
<b>Length, packed</b>	1975 mm   77.756 in
<b>Weight, gross</b>	43.3 kg   95.46 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## 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.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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