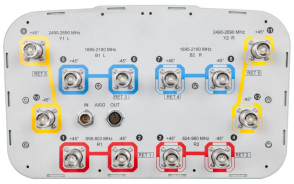
JCHHTT-65B-R5



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

This product will be discontinued on: November 30, 2024

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, 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
Power Consumption, normal conditions, maximum	8 W

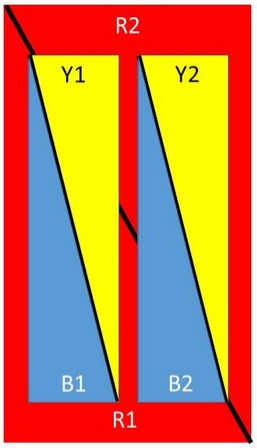
JCHHTT-65B-R5

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

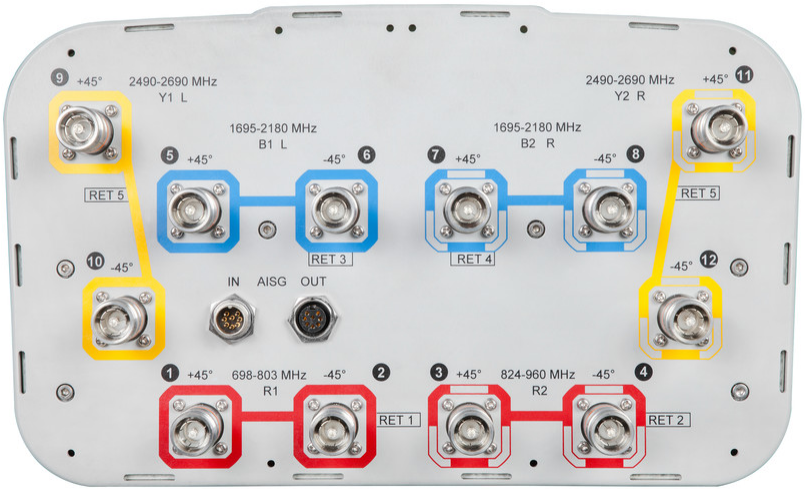


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	824-960	3-4	2	CPxxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxY1
Y2	2490-2690	11-12		

(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

VSWR | Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	300	300	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	**698–803**	**824–960**	**1695–1920**	**1920–2180**	**2490–2690**
Gain by all Beam Tilts, average, dBi	14.4	15	17.1	17.8	17.3
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.4	±0.7	±0.3	±0.6
Gain by Beam Tilt, average, dBi	2 ° | 14.4 8 ° | 14.4 14 ° | 14.3	2 ° | 15.2 8 ° | 15.1 14 ° | 14.9	2 ° | 17.0 7 ° | 17.2 12 ° | 17.0	2 ° | 17.7 7 ° | 17.9 12 ° | 17.6	2 ° | 17.4 7 ° | 17.5 12 ° | 16.8
Beamwidth, Horizontal Tolerance, degrees	±1.4	±3.2	±3.8	±2.4	±3.9
Beamwidth, Vertical Tolerance, degrees	±1	±0.7	±0.3	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	16	17	16
Front-to-Back Total Power at 180° ± 30°, dB	25	22	26	28	25
CPR at Boresight, dB	21	22	21	24	16
CPR at Sector, dB	11	9	9	9	9

Mechanical Specifications

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

Packaging and Weights

Width, packed	456 mm | 17.953 in
Depth, packed	357 mm | 14.055 in
Length, packed	1975 mm | 77.756 in
Weight, gross	43.3 kg | 95.46 lb

Regulatory Compliance/Certifications

JCHHTT-65B-R5

Agency	Classification
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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance