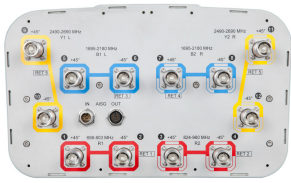


JCHHTT-65B-R5



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

JCHTT-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

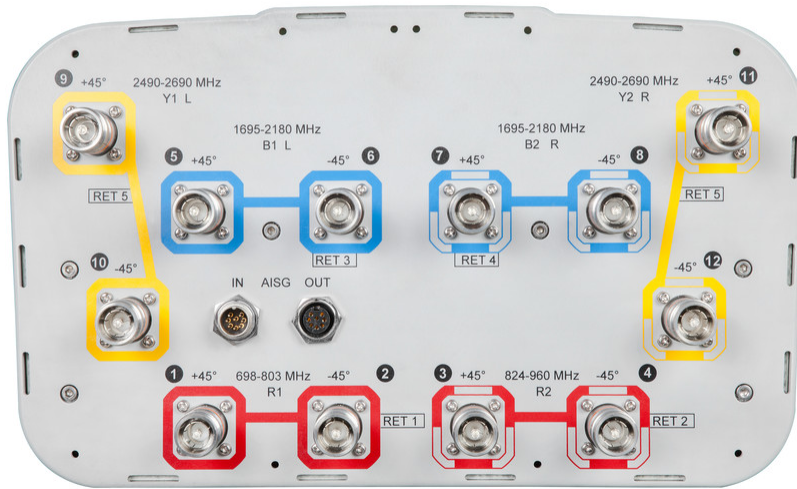
Array Layout

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	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		

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

Port Configuration

JCHTT-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

JCHTT-65B-R5

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

JCHTT-65B-R5

Agency

CHINA-ROHS

ISO 9001:2015

ROHS

UK-ROHS

Classification

Above maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant/Exempted

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