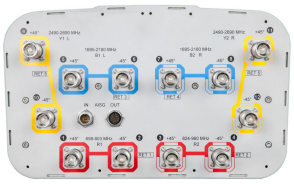
JCHHTT-65B-R5



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

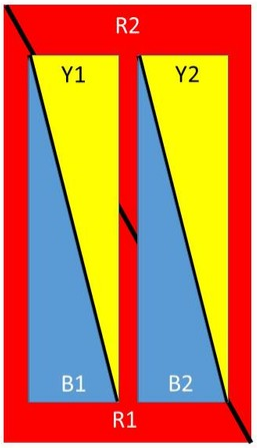
JCHHTT-65B-R5

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

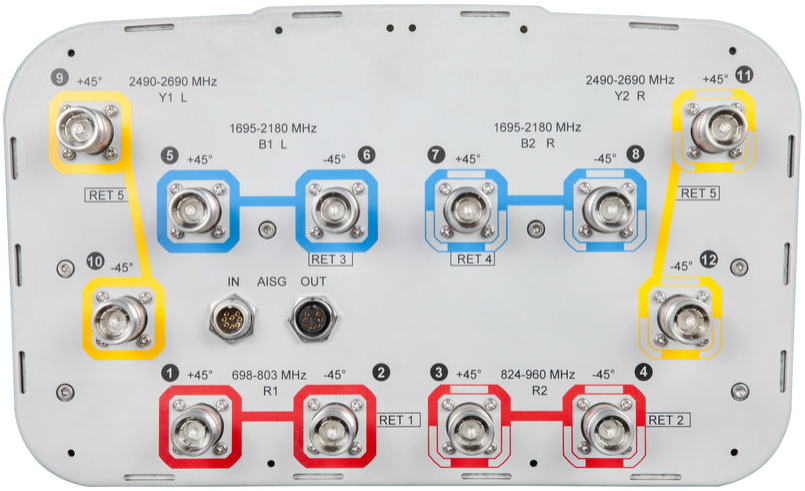


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	824-960	3-4	2	CPxxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxY1
Y2	2490-2690	11-12		

(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

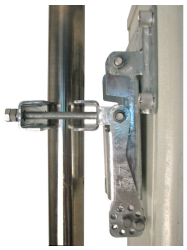
Included Products

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

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.

Product Classification

Product Type	Downtilt mounting kit

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	115 mm | 4.528 in
Compatible Diameter, minimum	60 mm | 2.362 in
Weight, net	6.2 kg | 13.669 lb

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, gross	6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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