

JCVHHTT-65B-R6



14-port sector antenna, 2x 698-803 (R1), 2x 824-960 (R2), 2x 1695-2690 (Y2), 4x 1695-2180 (B1-B2), 4x 2490-2690 (Y1 & Y3) MHz, 65° HPBW, 6x RET. Y1 & Y3 share a common RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Retractable tilt indicator rods

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

RRZHHTT-65A-R6N39 14-port sector antenna, 4x 694-960, 2x 1427-2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 6x RET

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	10
RF Connector Quantity, low band	4
RF Connector Quantity, total	14

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male

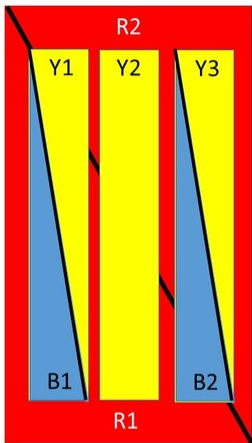
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Input Voltage	10–30 Vdc
Internal RET	High band (4) Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	395 mm 15.551 in
Depth	228 mm 8.976 in
Length	1980 mm 77.953 in
Net Weight, without mounting kit	35.6 kg 78.484 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
Y3	2490-2690	13-14		
Y2	1695-2690	11-12	6	CPxxxxxxxxxxxxxxxxY2

Left Bottom Right

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2180 MHz 1695 – 2690 MHz 2490 – 2690 MHz 698 – 803 MHz 824 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

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	R1	R2	B1-B2	B1-B2	Y1/Y3	Y2	Y2	Y2
Frequency Band, MHz	698–803	824–960	1695–1880	1920–2180	2490–2690	1695–1880	1920–2180	2300–2690
Gain, dBi	15	15.5	17.4	18.4	17.9	17.5	18.8	18.8
Beamwidth, Horizontal, degrees	66	64	70	66	63	71	61	62
Beamwidth, Vertical, degrees	11.7	10.2	5.4	4.9	4.2	5.6	5	4.2
Beam Tilt, degrees	2–14	2–14	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	19	16	16	20	19	18	17
Front-to-Back Ratio at 180°, dB	31	33	32	34	30	32	36	33
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	150	250	250	200

Electrical Specifications, BASTA

	698–803	824–960	1695–1880	1920–2180	2490–2690	1695–1880	1920–2180	2300–2690
Frequency Band, MHz	698–803	824–960	1695–1880	1920–2180	2490–2690	1695–1880	1920–2180	2300–2690
Gain by all Beam Tilts, average, dBi	14.8	15.2	17.1	18	17.5	17.2	18.4	18.3
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.4	±0.6	±0.5	±0.7	±0.7	±0.7	±0.7
Gain by Beam Tilt, average, dBi	2° 14.8 9° 14.9 14° 14.6	2° 15.1 9° 15.3 14° 14.9	2° 17.1 7° 17.2 12° 17.1	2° 17.9 7° 18.1 12° 17.8	2° 17.5 7° 17.6 12° 17.2	2° 17.1 7° 17.2 12° 17.2	2° 18.3 7° 18.5 12° 18.4	2° 18.3 7° 18.5 12° 17.9
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.4	±2.5	±5.3	±5.1	±3.9	±6.1	±6.6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.3	±0.3	±0.2	±0.3	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	17	17	16	16	16	16	16	16
Front-to-Back Total Power at 180° ± 30°, dB	26	23	23	25	24	28	28	27
CPR at Boresight, dB	18	16	17	19	15	21	21	16
CPR at Sector, dB	11	8	7	6	7	9	10	5

Mechanical Specifications

Wind Loading @ Velocity, frontal

398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)

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Wind Loading @ Velocity, lateral	290.0 N @ 150 km/h (65.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	681.0 N @ 150 km/h (153.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	505 mm 19.882 in
Depth, packed	386 mm 15.197 in
Length, packed	2123 mm 83.583 in
Weight, gross	52.1 kg 114.861 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

BSAMNT-4	-	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

Performance Note	Severe environmental conditions may degrade optimum performance
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