

# 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

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	10
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	14

## Remote Electrical Tilt (RET) Information

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

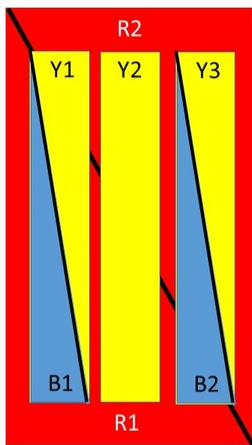
# JCVHHTT-65B-R6

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

## Dimensions

<b>Width</b>	395 mm   15.551 in
<b>Depth</b>	228 mm   8.976 in
<b>Length</b>	1980 mm   77.953 in
<b>Net Weight, without mounting kit</b>	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

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

## Electrical Specifications

# JCVHHTT-65B-R6

	R1	R2	B1-B2	B1-B2	Y1/Y3	Y2	Y2	Y2
<b>Frequency Band, MHz</b>	<b>698–803</b>	<b>824–960</b>	<b>1695–1880</b>	<b>1920–2180</b>	<b>2490–2690</b>	<b>1695–1880</b>	<b>1920–2180</b>	<b>2300–2690</b>
<b>Gain, dBi</b>	15	15.5	17.4	18.4	17.9	17.5	18.8	18.8
<b>Beamwidth, Horizontal, degrees</b>	66	64	70	66	63	71	61	62
<b>Beamwidth, Vertical, degrees</b>	11.7	10.2	5.4	4.9	4.2	5.6	5	4.2
<b>Beam Tilt, degrees</b>	2–14	2–14	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	19	16	16	20	19	18	17
<b>Front-to-Back Ratio at 180°, dB</b>	31	33	32	34	30	32	36	33
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25	25
<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	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	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	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
<b>Frequency Band, MHz</b>	<b>698–803</b>	<b>824–960</b>	<b>1695–1880</b>	<b>1920–2180</b>	<b>2490–2690</b>	<b>1695–1880</b>	<b>1920–2180</b>	<b>2300–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.8	15.2	17.1	18	17.5	17.2	18.4	18.3
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.2	±0.4	±0.6	±0.5	±0.7	±0.7	±0.7	±0.7
<b>Gain by Beam Tilt, average, dBi</b>	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
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.7	±1.4	±2.5	±5.3	±5.1	±3.9	±6.1	±6.6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.8	±0.7	±0.3	±0.3	±0.2	±0.3	±0.4	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	17	16	16	16	16	16	16
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	23	23	25	24	28	28	27
<b>CPR at Boresight, dB</b>	18	16	17	19	15	21	21	16
<b>CPR at Sector, dB</b>	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)

# JCVHHTT-65B-R6

---

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

## Packaging and Weights

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

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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.
----------	---	--

## \* Footnotes

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

# 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.

## 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** 6.5 kg | 14.33 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

## Regulatory Compliance/Certifications

Agency	Classification
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

