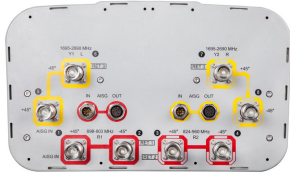


# JCVV-65C-R3B



8-port sector antenna, 2x 698–803, 2x 824–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5)

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band

## OBSOLETE

This product was discontinued on: March 27, 2020

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector 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>Radiator Material</b>	Aluminum   Low loss circuit board
<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>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

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

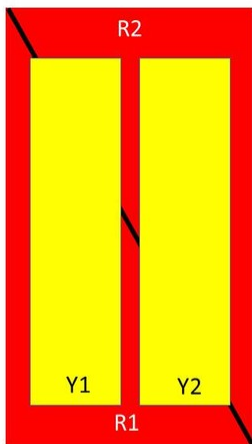
# JCVV-65C-R3B

<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 5
<b>Internal RET</b>	High band (1)   Low band (2)
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Power Consumption, normal conditions, maximum</b>	10 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	350 mm   13.78 in
<b>Depth</b>	208 mm   8.189 in
<b>Length</b>	2438 mm   95.984 in
<b>Net Weight, without mounting kit</b>	38.6 kg   85.098 lb

## Array Layout



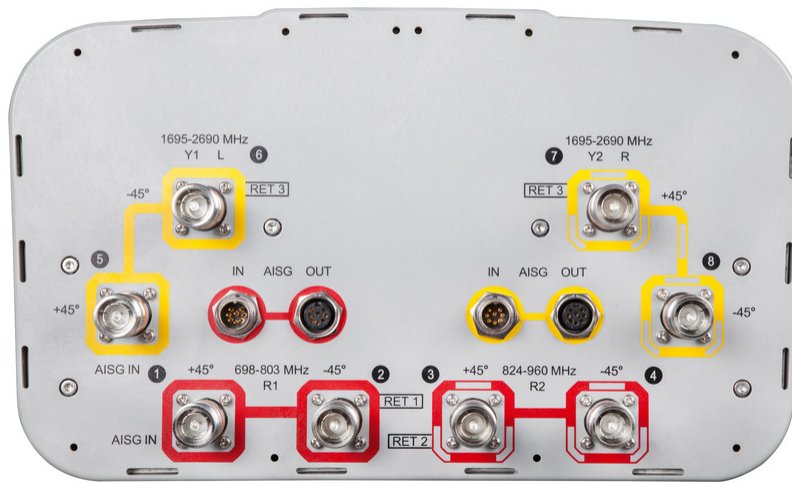
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-803	1-2	1	ANxxxxxxxxxxxxxxxxx1
R2	824-960	3-4	2	ANxxxxxxxxxxxxxxxxx2
Y1	1695-2690	5-6	3	ANxxxxxxxxxxxxxxxxx3
Y2	1695-2690	7-8		

Left      Right  
Bottom

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

## Port Configuration

# JCVV-65C-R3B



## Electrical Specifications

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

## Electrical Specifications

Frequency Band, MHz	698–803	824–894	880–960	1695–1880	1850–1990	1920–2200	2400–2690
<b>Gain, dBi</b>	15.7	16.1	16.2	18.2	18.8	19.1	19.3
<b>Beamwidth, Horizontal, degrees</b>	67	65	64	63	60	60	61
<b>Beamwidth, Vertical, degrees</b>	9.6	8.6	8	5.6	5.1	4.8	4.1
<b>Beam Tilt, degrees</b>	0–11	0–11	0–11	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	18	18	18	20	19	20	21
<b>Front-to-Back Ratio at 180°, dB</b>	30	32	32	36	40	37	36
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30	30
<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

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<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	250	250	250	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–803</b>	<b>824–894</b>	<b>880–960</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2400–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.5	15.9	16	17.9	18.5	18.8	18.9
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.4	±0.4	±0.6	±0.4	±0.4	±0.5
<b>Gain by Beam Tilt, average, dBi</b>	0° 15.2 5° 15.6 11° 15.5	0° 15.6 5° 16.0 11° 15.9	0° 15.8 5° 16.1 11° 16.0	2° 17.7 7° 18.0 12° 17.8	2° 18.2 7° 18.6 12° 18.4	2° 18.5 7° 18.9 12° 18.7	2° 18.7 7° 19.0 12° 18.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.4	±1.1	±1.2	±3.7	±1.4	±2	±3.2
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.7	±0.5	±0.5	±0.3	±0.2	±0.4	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	17	17	15	16	16	14
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	25	24	29	30	27	27
<b>CPR at Boresight, dB</b>	17	17	18	18	19	19	14
<b>CPR at Sector, dB</b>	10	11	9	11	9	10	5

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	456 mm   17.953 in
<b>Depth, packed</b>	357 mm   14.055 in
<b>Length, packed</b>	2585 mm   101.772 in
<b>Weight, gross</b>	53.6 kg   118.168 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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# JCVV-65C-R3B

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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-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

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