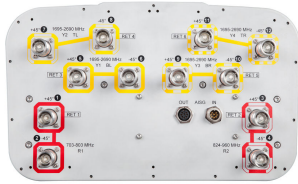


# JCV4-65B-R6



12-port sector antenna, 2x 703–803, 2x 824–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RETs and low bands have diplexers.

- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package

## OBSOLETE

This product was discontinued on: **March 31, 2022**

### Replaced By:

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.

## 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>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male

# JCV4-65B-R6

<b>RET Interface, quantity</b>	1 female   1 male
<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>	350 mm   13.78 in
<b>Depth</b>	208 mm   8.189 in
<b>Length</b>	1828 mm   71.969 in
<b>Net Weight, without mounting kit</b>	34.5 kg   76.059 lb

## Array Layout



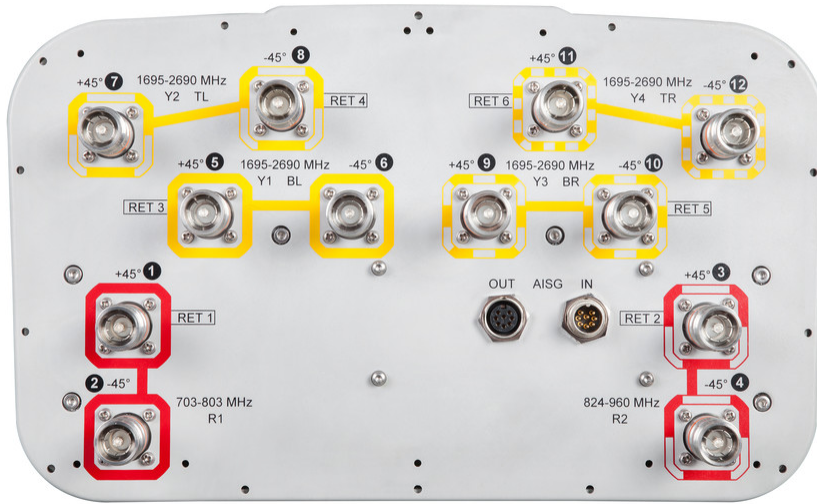
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	703-803	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	824-960	3-4	2	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxxxxY4

Left      Right  
Bottom

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

## Port Configuration

# JCV4-65B-R6



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   703 – 803 MHz   824 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	703–803	824–896	880–960	1695–1880	1850–1990	1920–2180	2500–2690
<b>Gain, dBi</b>	15	15.4	15.3	15.5	15.7	16.1	16.1
<b>Beamwidth, Horizontal, degrees</b>	67	65	64	62	61	60	63
<b>Beamwidth, Vertical, degrees</b>	12	10.7	10	11.2	10.6	10	8.3
<b>Beam Tilt, degrees</b>	2–14	2–14	2–14	2–14	2–14	2–14	2–14
<b>USLS (First Lobe), dB</b>	21	20	16	17	18	18	16
<b>Front-to-Back Ratio at 180°, dB</b>	32	34	33	35	37	35	34
<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>	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5

# JCV4-65B-R6

<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>	200	200	200	250	250	250	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>703-803</b>	<b>824-896</b>	<b>880-960</b>	<b>1695-1880</b>	<b>1850-1990</b>	<b>1920-2180</b>	<b>2500-2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.8	15.3	15.1	15.1	15.5	15.7	15.7
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.3	±0.5	±0.6	±0.3	±0.4	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	2° 14.7 8° 14.8 14° 14.6	2° 15.3 8° 15.4 14° 15.0	2° 15.3 8° 15.3 14° 14.6	2° 15.2 8° 15.2 14° 15.0	2° 15.6 8° 15.6 14° 15.4	2° 15.8 8° 15.8 14° 15.6	2° 15.8 8° 15.8 14° 15.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.7	±1.2	±3.5	±3.5	±2.4	±2.8	±4.9
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.8	±0.5	±0.7	±0.7	±0.6	±0.8	±0.6
<b>USLS, beampeak to 20° above beampeak, dB</b>	21	19	16	17	18	18	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	24	24	27	28	26	26
<b>CPR at Boresight, dB</b>	18	17	17	19	20	20	17
<b>CPR at Sector, dB</b>	10	11	9	10	8	9	6

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	638.0 N @ 150 km/h (143.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	450 mm   17.717 in
<b>Depth, packed</b>	355 mm   13.976 in
<b>Length, packed</b>	1975 mm   77.756 in
<b>Weight, gross</b>	47.8 kg   105.381 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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# JCV4-65B-R6

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ISO 9001:2015

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



## 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