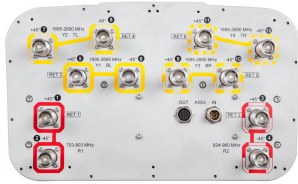


JCV4-65B-R6



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

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector 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
Radiator Material	Aluminum Low loss circuit board
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 v2
RET Interface	8-pin DIN Female 8-pin DIN Male

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

Array Layout



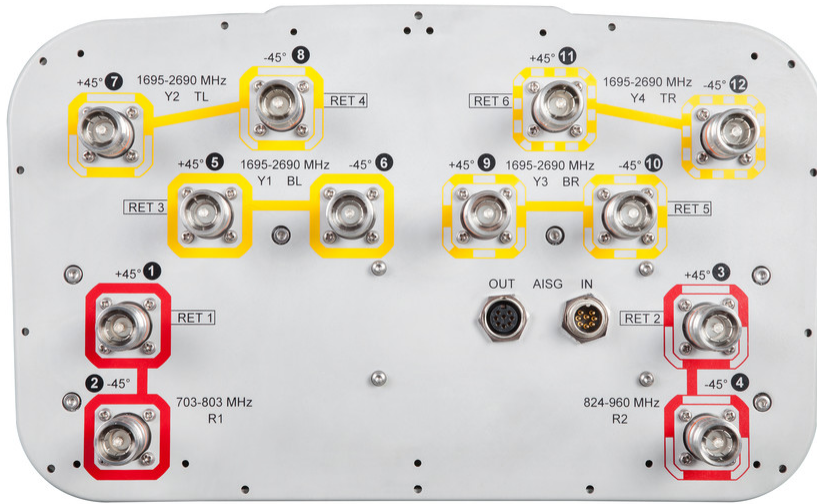
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	703-803	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	824-960	3-4	2	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxxxxxY4

Left Right
Bottom

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

Port Configuration

JCV4-65B-R6



Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	703–803	824–896	880–960	1695–1880	1850–1990	1920–2180	2500–2690
Gain, dBi	15	15.4	15.3	15.5	15.7	16.1	16.1
Beamwidth, Horizontal, degrees	67	65	64	62	61	60	63
Beamwidth, Vertical, degrees	12	10.7	10	11.2	10.6	10	8.3
Beam Tilt, degrees	2–14	2–14	2–14	2–14	2–14	2–14	2–14
USLS (First Lobe), dB	21	20	16	17	18	18	16
Front-to-Back Ratio at 180°, dB	32	34	33	35	37	35	34
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30	30
VSWR Return loss, dB	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

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

Electrical Specifications, BASTA

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

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	450 mm 17.717 in
Depth, packed	355 mm 13.976 in
Length, packed	1975 mm 77.756 in
Weight, gross	47.8 kg 105.381 lb

Regulatory Compliance/Certifications

Agency	Classification
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JCV4-65B-R6

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

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

BSAMNT-3

