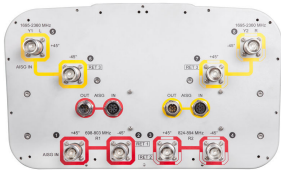


# JAHH-65C-R3B-V2



8-port sector antenna, 2x 698–803, 2x 824–894 and 4x 1695–2360 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
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

## General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
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	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

## 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
Input Voltage	10–30 Vdc

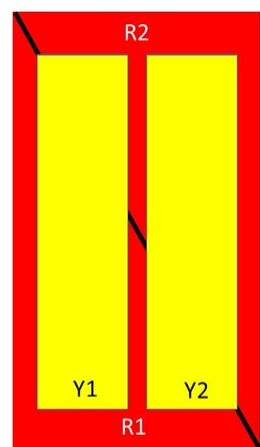
# JAAHH-65C-R3B-V2

Internal Bias Tee	Port 1   Port 5
Internal RET	High band (1)   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	2438 mm   95.984 in
Net Weight, without mounting kit	36.1 kg   79.587 lb

## Array Layout

	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	R1	698-803	1-2	1	CPxxxxxxxxxxxxxxxxR1
	R2	824-894	3-4	2	CPxxxxxxxxxxxxxxxxR2
	Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxxxY1
	Y2	1695-2360	7-8		

Left

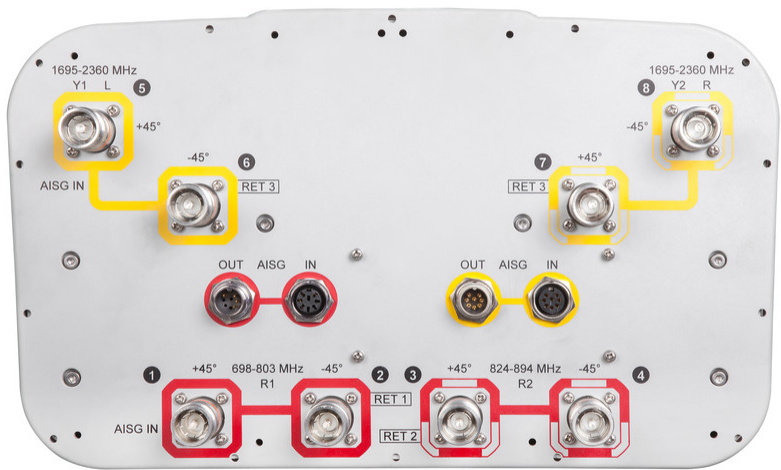
Right

Bottom

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

## Port Configuration

# JAHH-65C-R3B-V2



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz   698 – 803 MHz   824 – 894 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	698–803	824–894	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	15.6	16.1	18.2	18.6	18.8	18.9
Beamwidth, Horizontal, degrees	67	64	62	60	61	63
Beamwidth, Vertical, degrees	9.9	8.4	5.6	5.2	4.9	4.5
Beam Tilt, degrees	0–11	0–11	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	22	23	18	18	18	18
Front-to-Back Ratio at 180°, dB	33	31	30	34	37	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
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

# JAHH-65C-R3B-V2

<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	200	200	250	250	250	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–803</b>	<b>824–894</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.2	15.9	17.6	18.4	18.5	18.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.4	±0.7	±0.4	±0.5	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	0°   15.1 5°   15.3 11°   15.2	0°   15.6 5°   16.0 11°   15.9	0°   17.4 5°   17.7 10°   17.5	0°   18.1 5°   18.5 10°   18.4	0°   18.1 5°   18.6 10°   18.4	0°   18.1 5°   18.7 10°   18.3
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±0.9	±1.6	±3.5	±2.5	±2.7	±4.1
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±0.4	±0.3	±0.2	±0.3	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	16	14	15	16	16	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	23	25	30	28	29
<b>CPR at Boresight, dB</b>	22	22	21	24	22	22
<b>CPR at Sector, dB</b>	12	11	10	13	12	7

## Mechanical Specifications

<b>Effective Projective Area (EPA), frontal</b>	0.4 m²   4.306 ft²
<b>Effective Projective Area (EPA), lateral</b>	0.34 m²   3.66 ft²
<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   149.75 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>	51.1 kg   112.656 lb

# JAHH-65C-R3B-V2

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted



## 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
------------------	---