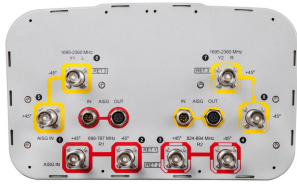


# JAHH-65B-R3B



8-port sector antenna, 2x 698–787, 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

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light gray
<b>Effective Projective Area (EPA), frontal</b>	0.28 m <sup>2</sup>   3.014 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.24 m <sup>2</sup>   2.583 ft <sup>2</sup>
<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, General

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

## Dimensions

<b>Width</b>	350 mm   13.78 in
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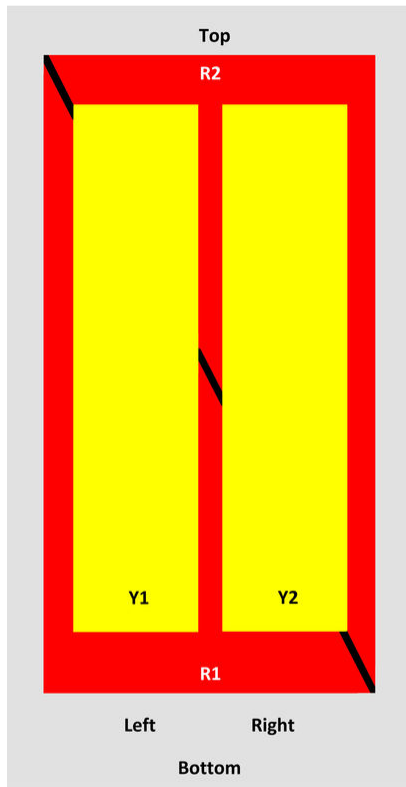
# JAHH-65B-R3B

**Length** 1828 mm | 71.969 in

**Depth** 208 mm | 8.189 in

## Array Layout

JAHH-65A-R3B JAHH-65B-R3B JAHH-65C-R3B



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-798	1-2	1	ANXXXXXXXXXXXXXXXXX1
R2	824-894	3-4	2	ANXXXXXXXXXXXXXXXXX2
Y1	1695-2360	5-6	3	ANXXXXXXXXXXXXXXXXX3
Y2	1695-2360	7-8		

View from the front of the antenna

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

## Electrical Specifications

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 787 MHz | 824 – 894 MHz

**Polarization** ±45°

## Remote Electrical Tilt (RET) Information, Electrical

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Power Consumption, idle state, maximum** 2 W

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<b>Power Consumption, normal conditions, maximum</b>	13 W
<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)

## Electrical Specifications

Frequency Band, MHz	698–787	824–894	1695–1880	1850–1990	1920–2200	2300–2360
<b>Gain, dBi</b>	14.5	15.8	18	18.4	18.5	18.8
<b>Beamwidth, Horizontal, degrees</b>	67	65	63	63	65	68
<b>Beamwidth, Vertical, degrees</b>	12.4	10.5	5.7	5.2	4.9	4.4
<b>Beam Tilt, degrees</b>	2–14	2–14	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	18	20	20	21	23
<b>Front-to-Back Ratio at 180°, dB</b>	32	34	31	35	36	38
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	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
<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	300	300	300	250

## Electrical Specifications, BASTA

Frequency Band, MHz	698–787	824–894	1695–1880	1850–1990	1920–2200	2300–2360
<b>Gain by all Beam Tilts, average, dBi</b>	14.3	14.9	17.6	18.1	18.2	18.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.3	±0.5	±0.6	±0.4	±0.5	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	2°   14.3 8°   14.3 14°   14.3	2°   15.0 8°   14.9 14°   15.4	0°   17.2 5°   17.6 10°   17.6	0°   17.6 5°   18.2 10°   18.2	0°   17.7 5°   18.3 10°   18.3	0°   17.9 5°   18.7 10°   18.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.2	±1.4	±4	±2.4	±2.9	±2.7
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.9	±0.5	±0.3	±0.2	±0.3	±0.1
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	17	17	18	19	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	24	26	29	27	29
<b>CPR at Boresight, dB</b>	22	23	20	21	21	24

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CPR at Sector, dB	11	12	11	11	11	8
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## Mechanical Specifications

Wind Loading at Velocity, frontal	301.0 N @ 150 km/h   67.7 lbf @ 150 km/h
Wind Loading at Velocity, lateral	254.0 N @ 150 km/h   57.1 lbf @ 150 km/h
Wind Loading at Velocity, maximum	143.4 lbf @ 150 km/h   638.0 N @ 150 km/h
Wind Speed, maximum	241 km/h   149.75 mph

## Packaging and Weights

Width, packed	456 mm   17.953 in
Depth, packed	357 mm   14.055 in
Length, packed	1975 mm   77.756 in
Net Weight, without mounting kit	29.2 kg   64.375 lb
Weight, gross	42.5 kg   93.696 lb

## 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