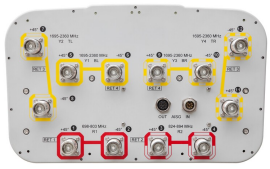
JAH4-65B-R4



12-port sector antenna, 2x 698-803, 2x 824-894 and 8x 1695–2360 MHz, 65° HPBW, 4x RETs and low bands have diplexers.

- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- One RET for 700MHz, one RET for 850MHz, and one RET for each side-by-side pair of high bands to ensure same tilt level for 4x Rx or 4x MIMO

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	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, mid band	0
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
RET Interface, quantity	1 female | 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) | Low band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W

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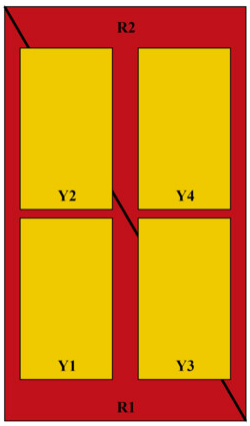
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

Dimensions

Width	350 mm | 13.78 in
Depth	208 mm | 8.189 in
Length	1828 mm | 71.969 in
Net Weight, antenna only	32.7 kg | 72.091 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (MRET)	AISG No.	AISG RET UID
R1	698-803	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxMM.1
R2	824-894	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxMM.2
Y2	1695-2360	7 - 8	65°	3	AISG1	CPxxxxxxxxxxxxMM.3
Y4	1695-2360	11 - 12	65°			
Y1	1695-2360	5 - 6	65°	4	AISG1	CPxxxxxxxxxxxxMM.4
Y3	1695-2360	9 - 10	65°			

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

Port Configuration

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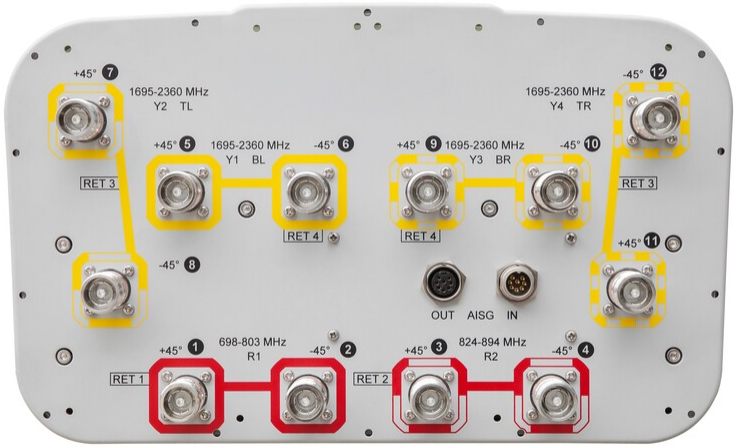

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz | 698 – 803 MHz | 824 – 894 MHz
Polarization	±45°
Total Input Power, maximum	900 W

Electrical Specifications

	R1	R2	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2
Frequency Band, MHz	**698–803**	**824–894**	**1695–1880**	**1850–1990**	**1920–2180**	**2300–2360**
RF Port	1-2	3-4	5-12	5-12	5-12	5-12
Gain, dBi	14.9	15.4	15.8	16.1	16.3	16.8
Beamwidth, Horizontal, degrees	68	66	63	61	63	68
Beamwidth, Vertical, degrees	11.8	10.4	11	10.3	9.7	8.9
Beam Tilt, degrees	2–14	2–14	2–14	2–14	2–14	2–14
USLS (First Lobe), dB	20	19	18	18	19	19
Front-to-Back Ratio at 180°, dB	32	34	35	39	35	38
Isolation, Cross Polarization, dB	25	25	25	25	25	25

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

Mechanical Specifications

BASTA Version, mechanical	BASTA v11
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	241.4 km/h (150 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
Weight, gross	42.1 kg | 92.815 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
UK-ROHS	Compliant/Exempted

Included Products

BSAMNT-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance