RRVV2HH-6533B-R6

16-port sector antenna, 4x 694–960, 4x 1695-2690 MHz 65° HPBW and 8x 1695-2400 MHz 2x 2-beam 33° HPBW, 6x RET. Bands cascaded SRET

- All Internal RET actuators are connected in “Cascaded SRET” configuration

General Specifications

Antenna Type	Multibeam
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
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	12
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

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
Internal RET	High band (4) | Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RRVV2HH-6533B-R6

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2100 mm | 82.677 in
Net Weight, without mounting kit	46 kg | 101.413 lb

Array Layout

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2
Y1	1695-2400	5-6	3	CPxxxxxxxxxxxxxxxY1
Y3	1695-2400	9-10		
Y2	1695-2400	7-8	4	CPxxxxxxxxxxxxxxxY2
Y4	1695-2400	11-12		
Y5	1695-2690	13-14	5	CPxxxxxxxxxxxxxxxY5
Y6	1695-2690	15-16	6	CPxxxxxxxxxxxxxxxY6

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

Port Configuration

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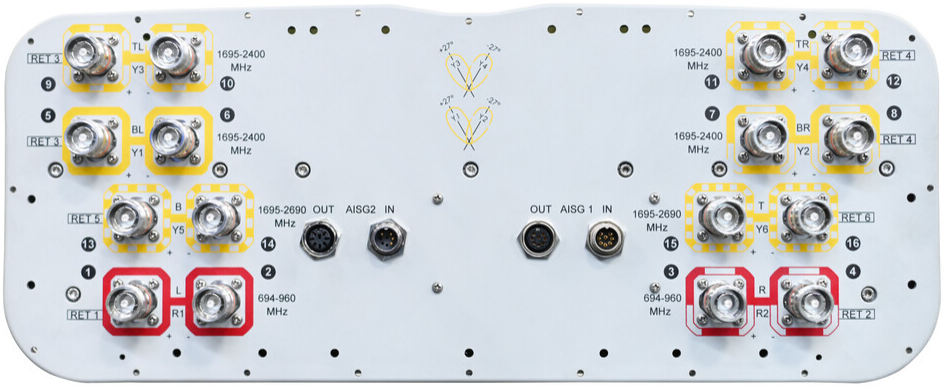

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2400 MHz | 1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,300 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	HB-Dual-Beam2	HB-Dual-Beam2	Y1-Y2	Y1-Y2
Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–1920**	**1920–2400**	**1695–2180**	**2300–2690**
Gain, dBi	15.1	15.3	15.6	16.6	18.2	17	18.3
Beam Centers, Horizontal, degrees				±27	±27		
Beamwidth, Horizontal, degrees	72	67	64	32	28	71	58
Beamwidth, Vertical, degrees	11	9.8	9	9.5	8.2	7.1	5.6
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	18	16	18	19	22
Front-to-Back Ratio at 180°, dB	32	31	32	34	33	33	33
Isolation, Cross Polarization,	28	28	28	25	25	25	25

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dB							
Isolation, Inter-band, dB	28	28	28	17	17	25	25
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	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.75 m² | 8.073 ft²
Effective Projective Area (EPA), lateral	0.26 m² | 2.799 ft²
Mechanical Tilt Range	0°–12°
Wind Loading @ Velocity, frontal	803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	661.0 N @ 150 km/h (148.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	368 mm | 14.488 in
Length, packed	2279 mm | 89.724 in
Weight, gross	59.8 kg | 131.836 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-4	–	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