RVV2H-6533D-R5

10-port sector antenna, 2x 694–960 and 4x 1695-2690 MHz 65° HPBW and 4x 1695-2180 MHz 2x 33° HPBW, 5x RET.

- 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	8
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

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 (1)
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

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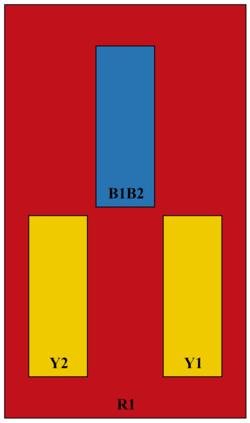
Depth	208 mm | 8.189 in
Length	2688 mm | 105.827 in
Net Weight, without mounting kit	35 kg | 77.162 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxY2
B1	1695-2180	7 - 8	33°	4	AISG1	CPxxxxxxxxxxxxxxB1
B2	1695-2180	9 - 10	33°	5	AISG1	CPxxxxxxxxxxxxxxB2

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

Port Configuration

Electrical Specifications

Impedance	50 ohm

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Operating Frequency Band	1695 – 2180 MHz | 1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**694–806**	**790–896**	**890–960**	**1695–1990**	**1920–2300**	**1695–1990**	**1920–2300**
Beamwidth, Horizontal, degrees	68	66	64	32	30	61	62
Beamwidth, Vertical, degrees	8.4	7.6	7.1	7	6.6	7.3	6.5
Beam Tilt, degrees	0–10	0–10	0–10	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	15	15	15	18	17
Front-to-Back Ratio at 180°, dB	35	33	35	32	36	38	35
Isolation, Cross Polarization, dB	28	28	28	25	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28	28
Isolation, Beam to Beam, dB				17	17		
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	**694–806**	**790–896**	**890–960**	**1695–1990**	**1920–2300**	**1695–1990**	**1920–2300**
Gain by all Beam Tilts, average, dBi	16.4	16.6	16.7	17.9	18.8	16.4	16.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.5	±1.2	±0.6	±0.7	±0.7
Beamwidth, Horizontal Tolerance, degrees	±1.6	±2.2	±1.5	±2.4	±1.7	±3.2	±3.6
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.5	±0.3	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB	16	17	15	15	15	13	15
Front-to-Back Total Power at 180° ± 30°, dB	27	26	25	25	28	28	27
CPR at Boresight, dB	16	17	17	19	20	22	21

Electrical Specifications

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Frequency Band, MHz	2300–2500	2490–2690
Beamwidth, Horizontal, degrees	63	63
Beamwidth, Vertical, degrees	5.8	5.4
Beam Tilt, degrees	2–12	2–12
USLS (First Lobe), dB	16	16
Front-to-Back Ratio at 180°, dB	35	35
Isolation, Cross Polarization, dB	28	28
Isolation, Inter-band, dB	28	28
VSWR | Return loss, dB	1.46 | 14.5	1.46 | 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	17.5	17.4
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.8
Beamwidth, Horizontal Tolerance, degrees	±5.5	±3.8
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	15	15
Front-to-Back Total Power at 180° ± 30°, dB	26	26
CPR at Boresight, dB	21	19

Mechanical Specifications

Mechanical Tilt Range	0°–12°
Wind Loading @ Velocity, frontal	477.0 N @ 150 km/h (107.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	409.0 N @ 150 km/h (91.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	506.0 N @ 150 km/h (113.8 lbf @ 150 km/h)

Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	460 mm | 18.11 in
Depth, packed	350 mm | 13.78 in
Length, packed	2830 mm | 111.417 in
Weight, gross	48.6 kg | 107.145 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