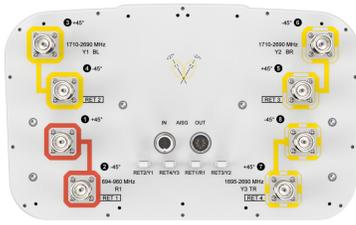


RV2V-6533D-R4



8-port sector/multibeam antenna, 2x 694–960 MHz 65° HPBW, 2x 1695–2690 MHz 65° and 4x 1710–2690 MHz 4x 33° HPBW, 4x RET with tilt indicators

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- 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
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	6
RF Connector Quantity, low band	2
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	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1) Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

Dimensions

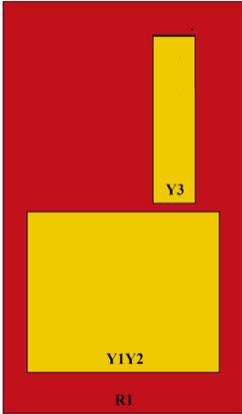
Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2688 mm 105.827 in

RV2V-6533D-R4

Net Weight, antenna only

31.6 kg | 69.666 lb

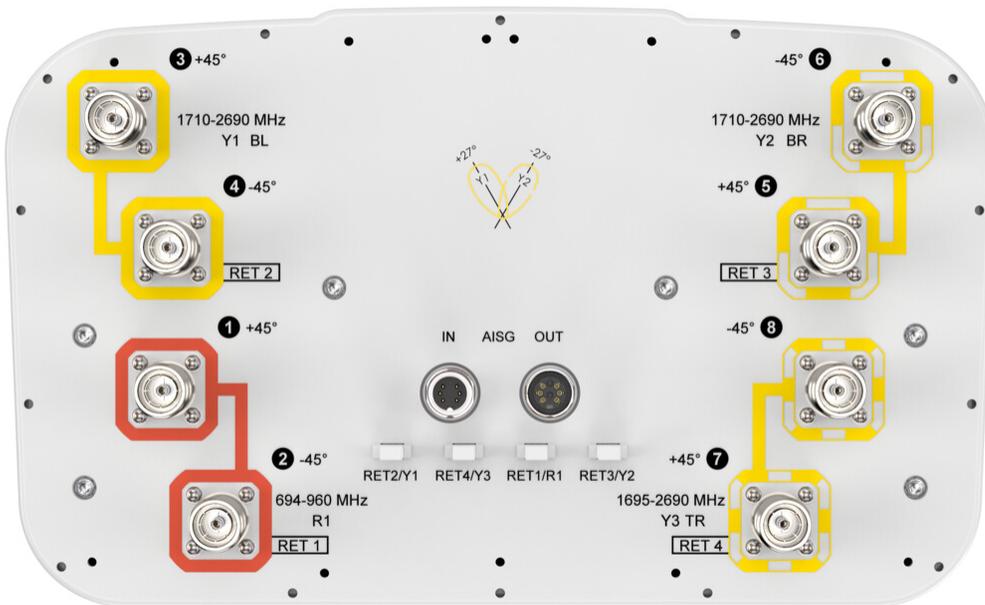
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY3

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 1710 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

RV2V-6533D-R4

Electrical Specifications

	R1	R1	R1	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2
Frequency Band, MHz	694-790	790-890	880-960	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
RF Port	1,2	1,2	1,2	3-6	3-6	3-6	3-6	3-6
Beamwidth, Horizontal, degrees	71	69	67	35	33	31	27	25
Beamwidth, Vertical, degrees	8.9	7.9	7.3	7.3	6.8	6.5	5.8	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	16	20	19	20	19	18
Front-to-Back Ratio at 180°, dB	30	33	34	31	35	37	36	33
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	27	27	27	27	27
Isolation, Beam to Beam, dB				17	17	17	17	17
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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250	250

Electrical Specifications

	Y3	Y3	Y3	Y3
Frequency Band, MHz	1695-1880	1920-2170	2300-2400	2490-2690
RF Port	7,8	7,8	7,8	7,8
Beamwidth, Horizontal, degrees	58	60	63	65
Beamwidth, Vertical, degrees	7	6.2	5.5	5.2
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	20	20	16
Front-to-Back Ratio at 180°, dB	33	38	38	35
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153

RV2V-6533D-R4

Input Power per Port at 50°C, maximum, watts 250 250 250 250

Mechanical Specifications

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 456 mm | 17.953 in
Depth, packed 357 mm | 14.055 in
Length, packed 2834 mm | 111.575 in
Weight, gross 45 kg | 99.208 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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