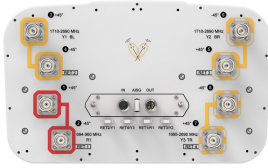


RV2V-6533D-R4



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
Radome Material	Fiberglass, UV resistant
Radiator Material	Copper Low loss circuit board
Reflector Material	Aluminum
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

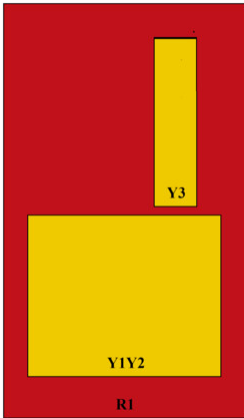
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1) Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

Dimensions

RV2V-6533D-R4

Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2688 mm 105.827 in
Net Weight, antenna only	35 kg 77.162 lb

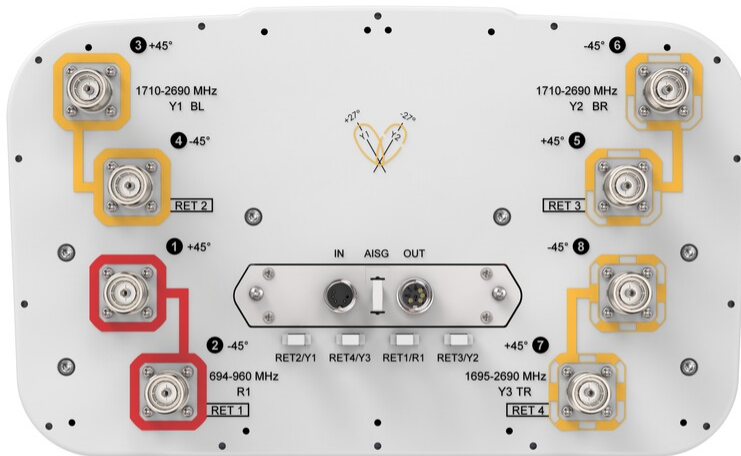
Array Layout



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



RV2V-6533D-R4

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

Electrical Specifications

	R1	R1	R1	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
RF Port	1,2	1,2	1,2	3-6	3-6	3-6	3-6
Beamwidth, Horizontal, degrees	68	66	64	36	35	32	26
Beamwidth, Vertical, degrees	8.9	8.1	7.4	7.2	6.8	6.5	5.8
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	19	17	17	17	17	18
Front-to-Back Ratio at 180°, dB	40	37	33	37	36	35	35
Isolation, Cross Polarization, dB	28	28	28	27	27	27	27
Isolation, Inter-band, dB	28	28	28	27	27	27	27
Isolation, Beam to Beam, dB				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
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	694–790	790–890	880–960	1710–1880	1850–1990	1920–2170	2300–2400
Gain by all Beam Tilts, average, dBi	16.2	16.6	16.8	17.5	18.6	19.2	19.8

Electrical Specifications

	Y1-Y2	Y3	Y3	Y3	Y3
Frequency Band, MHz	2490–2690	1695–1880	1920–2170	2300–2400	2490–2690
RF Port	3-6	7,8	7,8	7,8	7,8
Beamwidth, Horizontal, degrees	25	60	65	65	63

RV2V-6533D-R4

Beamwidth, Vertical, degrees	5.2	6.7	6	5.4	5
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	20	20	20	20
Front-to-Back Ratio at 180°, dB	33	33	36	38	37
Isolation, Cross Polarization, dB	27	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27	27
Isolation, Beam to Beam, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	2490-2690	1695-1880	1920-2170	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	20	17	17.6	18.2	18.3

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	46.7 kg 102.956 lb

Regulatory Compliance/Certifications

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

Included Products

RV2V-6533D-R4

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