RRVV-65D-R6D

8-port sector antenna, 4x 694–960, 4x 1695–2180/ 2490–2690 MHz, 65° HPBW , 6x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Utilize new aerodynamic endcap for wind load optimization

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

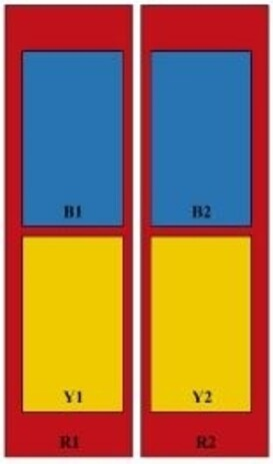
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 5
Internal RET	High band (4) | Low band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

RRVV-65D-R6D

Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2688 mm | 105.827 in
Net Weight, antenna only	52 kg | 114.64 lb

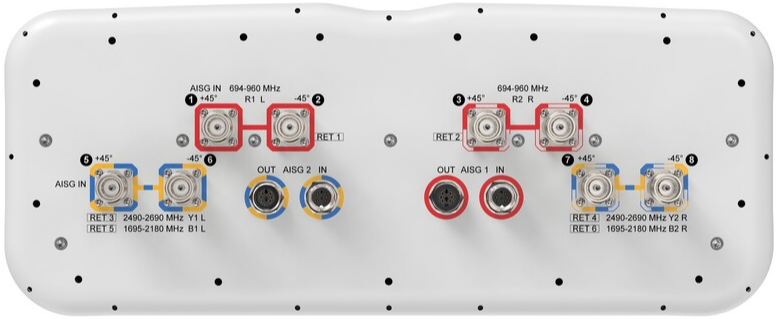
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	2490-2690	5 - 6	3	AISG2	CPxxxxxxxxxxxxxxY1
Y2	2490-2690	7 - 8	4	AISG2	CPxxxxxxxxxxxxxxY2
B1	1695-2180	5 - 6	5	AISG2	CPxxxxxxxxxxxxxxB1
B2	1695-2180	7 - 8	6	AISG2	CPxxxxxxxxxxxxxxB2

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

Port Configuration



RRVV-65D-R6D

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 960 MHz
Polarization	±45°

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2,B1,B2	Y1,Y2,B1,B2	Y1,Y2,B1,B2
Frequency Band, MHz	**694–790**	**790–890**	**880–960**	**1695–1920**	**1920–2180**	**2490–2690**
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8
Gain, dBi	15.7	16.1	16.6	16.5	16.6	16.4
Beamwidth, Horizontal, degrees	77	67	68	58	62	68
Beamwidth, Vertical, degrees	7.4	6.6	6.2	6.8	6.1	5.1
Beam Tilt, degrees	1–11	1–11	1–11	0–10	0–10	0–10
USLS (First Lobe), dB	16	16	20	18	18	17
Front-to-Back Ratio at 180°, dB	29	30	32	34	34	25
Isolation, Cross Polarization, dB	26	26	26	26	26	26
Isolation, Inter-band, dB	28	28	28	28	28	28
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	300	250	250	200

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	309 mm | 12.165 in
Length, packed	2935 mm | 115.551 in
Weight, gross	72.9 kg | 160.717 lb

Regulatory Compliance/Certifications

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

RRVV-65D-R6D

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.
BSAMNT-M4	–	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance