RRVV-65D-R4VB

8-port sector antenna, 4x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET

- Antenna with retractable tilt scale indicators and integrated pluggable RET
- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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
Radiator Material	Aluminum
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

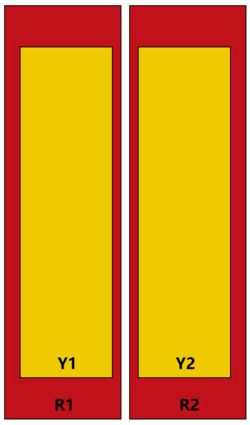
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) | Mid band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

RRVV-65D-R4VB

Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2497 mm | 98.307 in
Net Weight, antenna only	38.2 kg | 84.216 lb

Array Layout

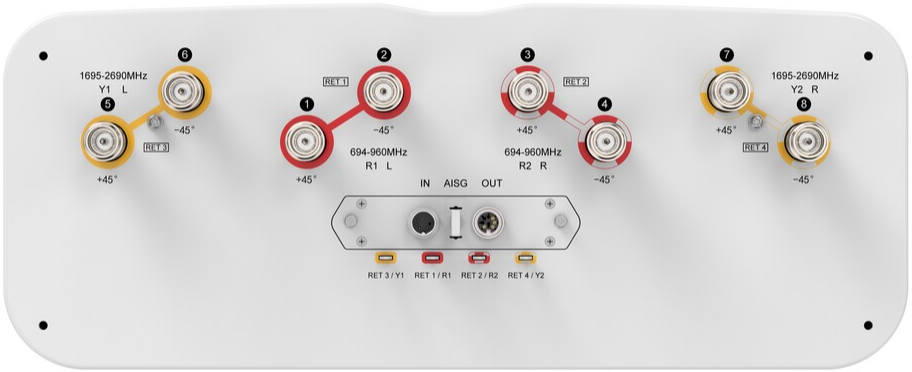


Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxY2

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

Port Configuration

RRVV-65D-R4VB



Electrical Specifications

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

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**698–806**	**790–894**	**890–960**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	16.2	16.7	16.8	17.9	18.4	18.3	18
Beamwidth, Horizontal, degrees	68	61	57	65	59	59	59
Beamwidth, Vertical, degrees	8.8	7.9	7.2	5.1	4.5	4.1	3.9
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	18	18	18	15	16
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	29	28	28	28	26	28

RRVV-65D-R4VB

Isolation, Cross Polarization, dB	27	27	27	28	28	28	28
Isolation, Inter-band, dB	27	27	27	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	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	250	250	250	200	170	170	170

Mechanical Specifications

Wind Loading @ Velocity, frontal	971.0 N @ 150 km/h (218.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	312.0 N @ 150 km/h (70.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,363.0 N @ 150 km/h (306.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	769.0 N @ 150 km/h (172.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	593 mm | 23.346 in
Depth, packed	317 mm | 12.48 in
Length, packed	2820 mm | 111.024 in
Weight, gross	54 kg | 119.049 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

BSAMNT-B95-02	–	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, one middle bracket set and one bottom bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance