

RVV-65B-R3VB-V2



6-port sector antenna, 2x 694-960 and 4x 1695-2690 MHz, 65° HPBW, 3x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- 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	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

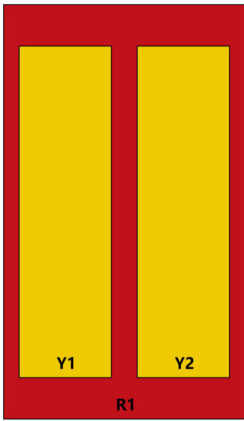
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10-30 Vdc
Internal RET	Low band (1) Mid band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

RVV-65B-R3VB-V2

Dimensions

Width	397 mm 15.63 in
Depth	157 mm 6.181 in
Length	1997 mm 78.622 in
Net Weight, antenna only	19.5 kg 42.99 lb

Array Layout

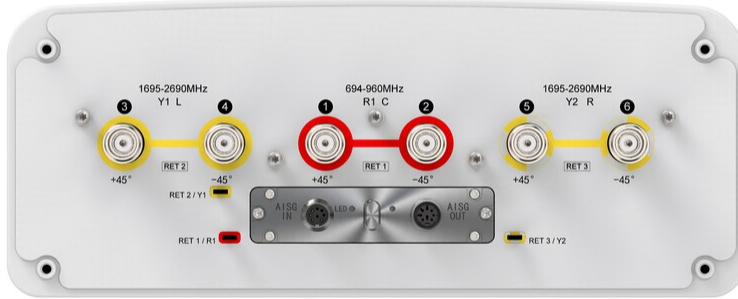


Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY2

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

Port Configuration

RVV-65B-R3VB-V2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

	R1	R1	R1	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	1,2	1,2	1,2	3-6	3-6	3-6	3-6
Gain, dBi	16.1	16.4	16.4	18.4	18.9	18.7	19.2
Beamwidth, Horizontal, degrees	61	59	64	59	58	58	58
Beamwidth, Vertical, degrees	12.1	10.9	10	6.2	5.6	5	4.7
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	20	19	17	20	20	22
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	29	30	31	31	31	29	29

RVV-65B-R3VB-V2

Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	28	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	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	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	790–894	890–960	1695–1995	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	15.8	16.4	16.4	17.8	18.5	18.4	18.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.5	±0.7	±0.5	±0.5	±0.8
Beamwidth, Horizontal Tolerance, degrees	±2	±1	±5	±5	±4	±4	±5
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.9	±0.5	±0.4	±0.4	±0.3	±0.3
CPR at Boresight, dB	23	27	24	22	25	23	25

Mechanical Specifications

Wind Loading @ Velocity, frontal	535.0 N @ 150 km/h (120.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	290.0 N @ 150 km/h (65.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	830.0 N @ 150 km/h (186.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	492 mm 19.37 in
Depth, packed	277 mm 10.906 in
Length, packed	2197 mm 86.496 in
Weight, gross	29.5 kg 65.036 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.commscope.com/ProductCompliance

RVV-65B-R3VB-V2

ROHS Compliant

UK-ROHS Compliant



Included Products

BSAMNT-B95-04 – 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