RV-65C-R2VB

4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65°HPBW, 2x 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, mid band	2
RF Connector Quantity, low band	2
RF Connector Quantity, total	4

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 (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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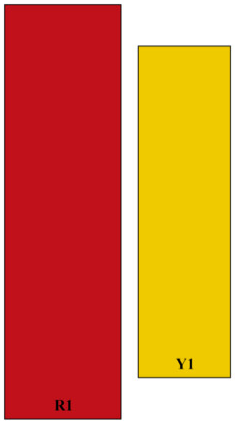
RV-65C-R2VB

Width	277 mm | 10.906 in
Depth	167 mm | 6.575 in
Length	2497 mm | 98.307 in
Net Weight, antenna only	18.4 kg | 40.565 lb

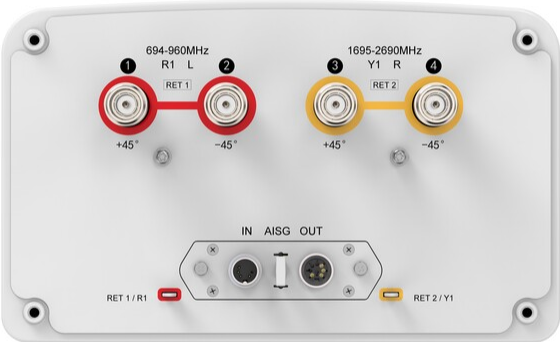
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxR1
Y1	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxY1

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

Port Configuration



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RV-65C-R2VB

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	500 W

Electrical Specifications

	R1	R1	R1	Y1	Y1	Y1	Y1
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	3,4	3,4	3,4	3,4
Gain, dBi	16.1	16.5	16.6	17.5	17.8	18.2	18.5
Beamwidth, Horizontal, degrees	70	66	63	63	64	64	60
Beamwidth, Vertical, degrees	8.7	7.8	7.3	6.5	5.8	5	4.7
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	19	20	17	17	19	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	28	29	28	27	29	30	28
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	300	300	300	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	345.0 N @ 150 km/h (77.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	519.0 N @ 150 km/h (116.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	690.0 N @ 150 km/h (155.1 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	372 mm | 14.646 in
Depth, packed	277 mm | 10.906 in

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RV-65C-R2VB

Length, packed	2697 mm | 106.181 in
Weight, gross	28.3 kg | 62.391 lb

Regulatory Compliance/Certifications

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

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