RVV65B-C3-3XR

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
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

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	1 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	301 mm | 11.85 in
Depth	180 mm | 7.087 in
Length	1850 mm | 72.835 in

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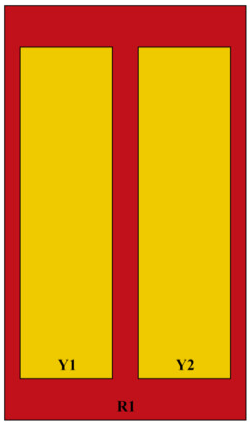
Net Weight, antenna only	23 kg | 50.706 lb

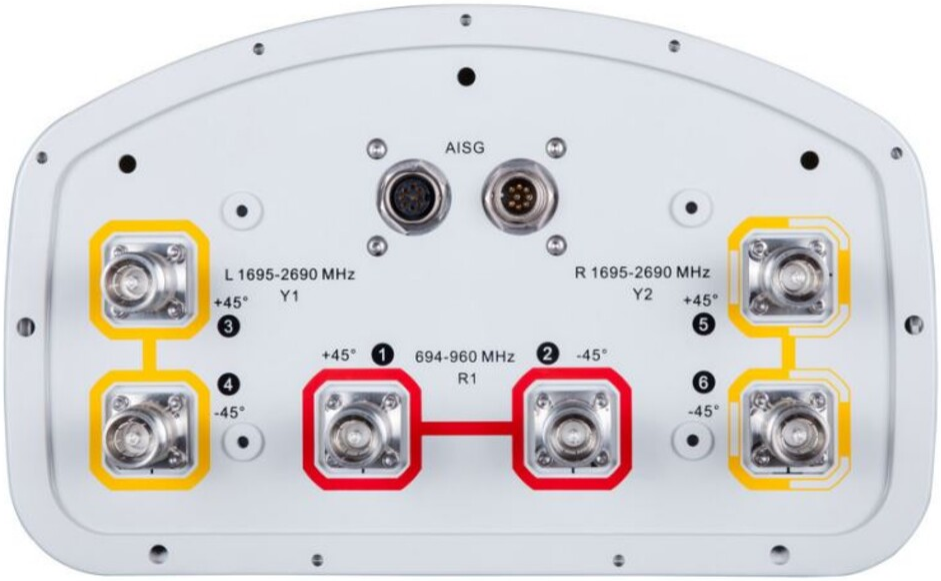
Array Layout



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

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

Port Configuration



Electrical Specifications

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

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Total Input Power, maximum	500 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–1920**	**1920–2180**	**2300–2500**	**2500–2690**
Gain at Mid Tilt, dBi	15	15.4	15.4	17.8	18.8	19.2	19.1
Beamwidth, Horizontal, degrees	71	71	68	63	61	61	62
Beamwidth, Vertical, degrees	11.7	10.5	9.9	5.6	5	4.3	4.1
Beam Tilt, degrees	0–13	0–13	0–13	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	16	21	19	20	17
Front-to-Back Ratio at 180°, dB	29	34	30	30	33	35	32
Front-to-Back Total Power at 180° ± 30°, dB	23	24	23	24	26	27	25
CPR at Boresight, dB	23	24	23	17	18	19	21
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30
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	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	281.0 N @ 150 km/h (63.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	247.0 N @ 150 km/h (55.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	618.0 N @ 150 km/h (138.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	286.0 N @ 150 km/h (64.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	409 mm | 16.102 in
Depth, packed	299 mm | 11.772 in
Length, packed	2036 mm | 80.158 in
Weight, gross	34 kg | 74.957 lb

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Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above 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/Exempted
UK-ROHS	Compliant/Exempted

Included Products

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