

RVVPX308.11R-V3



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

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- 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 Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
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, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

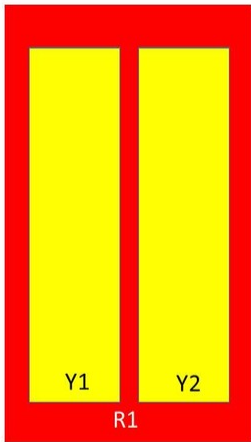
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

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Dimensions

Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2065 mm 81.299 in
Net Weight, without mounting kit	28.5 kg 62.832 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxxxx1
Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxxxxx2
Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxxx3

Left Right
Bottom

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

Port Configuration

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Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1880	1850–1990	1920–2180	2300–2690
Gain, dBi	15.6	16	16.2	17.3	17.7	18	18.7
Beamwidth, Horizontal, degrees	69	67	65	62	61	63	61
Beamwidth, Vertical, degrees	12.5	11	10.1	7.6	7	6.6	5.5
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	30	33	34	33	38	36	37
Isolation, Cross Polarization, dB	28	28	28	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30	30	30

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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 at 50°C, maximum, watts	175	175	175	175	175	175	175

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1880	1850–1990	1920–2180	2300–2690
Gain by all Beam Tilts, average, dBi	15.3	15.9	16.1	17	17.5	17.8	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.1	±0.4	±0.4	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0° 15.3 5° 15.3 10° 15.2	0° 15.8 5° 15.9 10° 15.8	0° 16.1 5° 16.1 10° 16.1	0° 16.9 5° 17.0 10° 17.1	0° 17.4 5° 17.5 10° 17.5	0° 17.7 5° 17.8 10° 17.8	0° 18.3 5° 18.4 10° 18.3
Beamwidth, Horizontal Tolerance, degrees	±0.9	±0.9	±1.6	±2.3	±1.5	±2.5	±5.5
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.4	±0.5	±0.3	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	26	27	26	26	26	30
CPR at Boresight, dB	17	17	16	17	19	19	19
CPR at Sector, dB	13	13	14	13	13	12	10

Mechanical Specifications

Wind Loading @ Velocity, frontal	348.0 N @ 150 km/h (78.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	294.0 N @ 150 km/h (66.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	737.0 N @ 150 km/h (165.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	369.0 N @ 150 km/h (83.0 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	436 mm 17.165 in
Depth, packed	320 mm 12.598 in
Length, packed	2252 mm 88.661 in
Weight, gross	49 kg 108.026 lb

Regulatory Compliance/Certifications

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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.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



Included Products

- T-029-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.362"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance