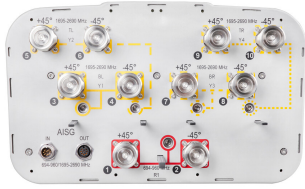


# RV4PX308R-V2



10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET with manual override. Bands cascaded SRET.

## OBSOLETE

This product was discontinued on: November 30, 2023

### Replaced By:

RV4-65B-R5-V2

10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Brass   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	10

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (4)   Low band (1)
<b>Power Consumption, idle state, maximum</b>	2 W

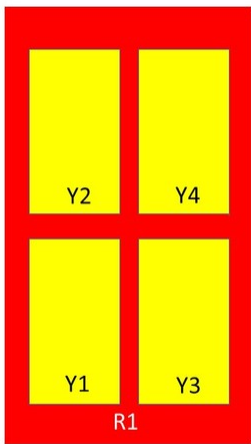
# RV4PX308R-V2

<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	350 mm   13.78 in
<b>Depth</b>	208 mm   8.189 in
<b>Length</b>	2065 mm   81.299 in
<b>Net Weight, without mounting kit</b>	31.8 kg   70.107 lb

## Array Layout



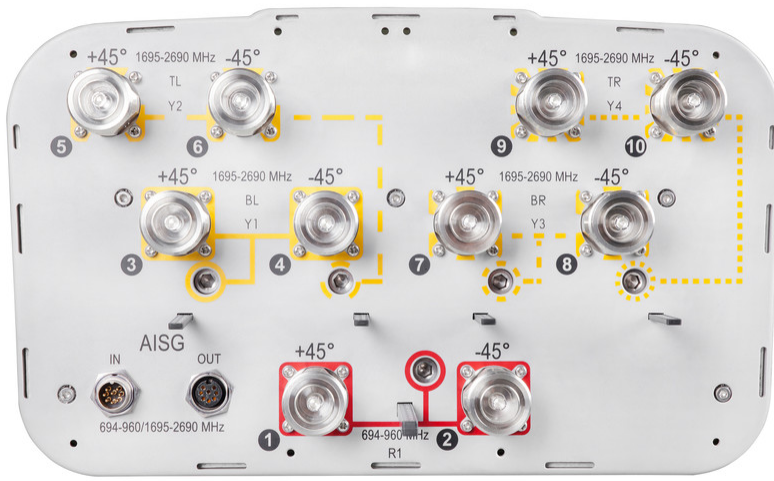
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxxY2
Y3	1695-2690	7-8	4	ARxxxxxxxxxxxxxxxxY3
Y4	1695-2690	9-10	5	ARxxxxxxxxxxxxxxxxY4

Left                      Right  
Bottom

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

## Port Configuration

# RV4PX308R-V2



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1880	1850–1990	1920–2180	2300–2690
<b>Gain, dBi</b>	15.3	15.7	15.9	16.2	16.5	16.7	17.3
<b>Beamwidth, Horizontal, degrees</b>	69	68	65	63	61	62	63
<b>Beamwidth, Vertical, degrees</b>	12.6	11.1	10.4	10.5	9.8	9.1	7.4
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	18	18	18	18	18	18
<b>Front-to-Back Ratio at 180°, dB</b>	31	32	34	33	40	36	39
<b>Isolation, Cross Polarization, dB</b>	28	28	28	30	30	30	30
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30	30
<b>VSWR   Return loss, dB</b>	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

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<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	200	200	200	175	175	175	175

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>	<b>2300–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15	15.6	15.8	15.7	16.2	16.4	16.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.1	±0.1	±0.5	±0.4	±0.5	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	0°   15.1 5°   15.1 10°   15.0	0°   15.6 5°   15.7 10°   15.6	0°   15.8 5°   15.8 10°   15.8	0°   15.7 5°   15.7 10°   15.7	0°   16.2 5°   16.2 10°   16.1	0°   16.4 5°   16.4 10°   16.4	0°   16.9 5°   16.9 10°   16.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1	±0.7	±1.9	±3	±3	±3.9	±6.4
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.8	±0.5	±0.3	±0.6	±0.4	±0.7	±0.6
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	18	18	18	18	18	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	26	25	27	26	29	27	28
<b>CPR at Boresight, dB</b>	16	18	18	18	22	22	20
<b>CPR at Sector, dB</b>	13	14	15	11	11	12	8

## Mechanical Specifications

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

## Packaging and Weights

<b>Width, packed</b>	436 mm   17.165 in
<b>Depth, packed</b>	320 mm   12.598 in
<b>Length, packed</b>	2250 mm   88.583 in
<b>Weight, gross</b>	51.9 kg   114.42 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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# RV4PX308R-V2

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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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
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.
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## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance