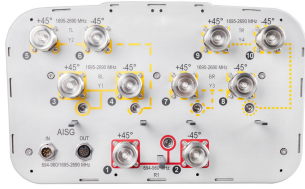


RV4PX308R-V2



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

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
Radome Material	Fiberglass, UV resistant
Radiator Material	Brass Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

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 (4) Low band (1)
Power Consumption, idle state, maximum	2 W

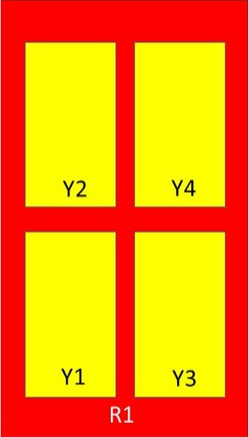
RV4PX308R-V2

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

Dimensions

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

Array Layout



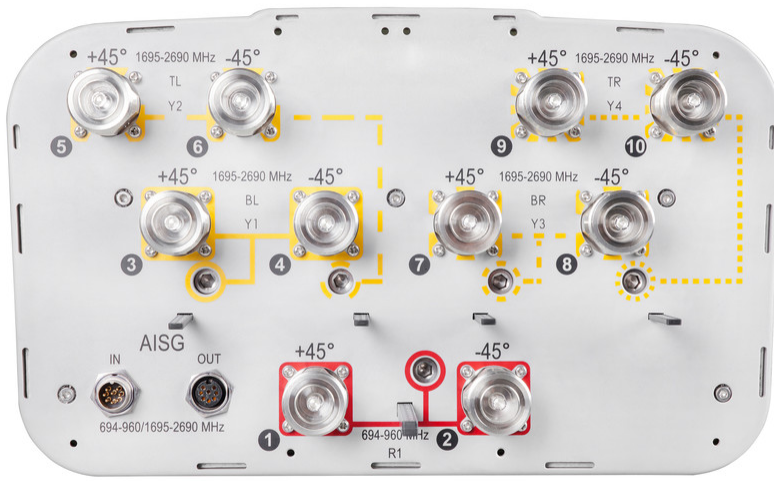
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxxxR1
Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxxxxY1
Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxxY2
Y3	1695-2690	7-8	4	ARxxxxxxxxxxxxxxxxY3
Y4	1695-2690	9-10	5	ARxxxxxxxxxxxxxxxxY4

Left Right
Bottom

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

Port Configuration

RV4PX308R-V2



Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1880	1850–1990	1920–2180	2300–2690
Gain, dBi	15.3	15.7	15.9	16.2	16.5	16.7	17.3
Beamwidth, Horizontal, degrees	69	68	65	63	61	62	63
Beamwidth, Vertical, degrees	12.6	11.1	10.4	10.5	9.8	9.1	7.4
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
Front-to-Back Ratio at 180°, dB	31	32	34	33	40	36	39
Isolation, Cross Polarization, dB	28	28	28	30	30	30	30
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

RV4PX308R-V2

PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	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	15.6	15.8	15.7	16.2	16.4	16.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.1	±0.1	±0.5	±0.4	±0.5	±0.6
Gain by Beam Tilt, average, dBi	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
Beamwidth, Horizontal Tolerance, degrees	±1	±0.7	±1.9	±3	±3	±3.9	±6.4
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.5	±0.3	±0.6	±0.4	±0.7	±0.6
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	25	27	26	29	27	28
CPR at Boresight, dB	16	18	18	18	22	22	20
CPR at Sector, dB	13	14	15	11	11	12	8

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	2250 mm 88.583 in
Weight, gross	51.9 kg 114.42 lb

Regulatory Compliance/Certifications

Agency	Classification
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RV4PX308R-V2

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



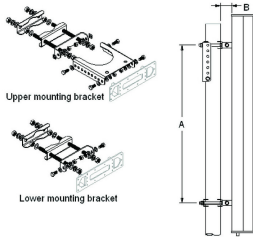
Included Products

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.
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* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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.

Product Classification

Product Type Adjustable tilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Length, maximum 2850 mm | 112.205 in

Compatible Length, minimum 1500 mm | 59.055 in

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Antenna-to-Pipe Distance 85 mm | 3.346 in

Bracket-to-Bracket Distance 1400 mm | 55.118 in

Weight, net 6 kg | 13.228 lb

Material Specifications

Material Type Galvanized steel

Mechanical Specifications

Mechanical Tilt 0°-8°

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

T-029-GL-E

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
ROHS	Compliant
UK-ROHS	Compliant

