

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

- 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

OBSOLETE

This product was discontinued on: March 31, 2021

Replaced By:

RV4-65D-R5 10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET with manual override

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	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 Hardware	CommRET v1
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Page 1 of 6

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RV4PX310R-E2

Input Voltage	10-30 Vdc
Internal RET	High band (4) Low band (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2533 mm 99.724 in
Net Weight, without mounting kit	39.7 kg 87.523 lb

Array Layout

AISG RET UID
xxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXXXXX
xxxxxxxXXXXXXXXXXY1
xxxxxxxxxxxxxXXXXXXXXY2
xxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXXXXX
xxxxxxxxxxxxXXX

Left Right Bottom

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

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	694-798	790-894	890-960	1695-1880	1850-1990	1920-2200	2300-2690
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Page 2 of 6

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RV4PX310R-E2

Gain, dBi	16	16.6	16.9	16.8	16.9	17.2	18
Beamwidth, Horizontal,	69	68	66	63	62	63	61
degrees							
Beamwidth, Vertical, degrees	9.9	8.7	8.1	8.3	7.7	7.1	6
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	31	34	33	32	39	37	38
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
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

Electrical Specifications, BASTA

Frequency Band, MHz	694-798	790-894	890-960	1695-1880	1850-1990	1920-2200	2300-2690
Gain by all Beam Tilts, average, dBi	15.8	16.4	16.8	16.3	16.6	16.9	17.6
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.2	±0.5	±0.4	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0 ° 15.9 5 ° 15.8 10 ° 15.8	0 ° 16.4 5 ° 16.4 10 ° 16.4	0 ° 16.7 5 ° 16.7 10 ° 16.8	0 ° 16.3 5 ° 16.3 10 ° 16.4	0 ° 16.6 5 ° 16.6 10 ° 16.7	0 ° 16.9 5 ° 17.0 10 ° 16.9	0° 17.6 5° 17.6 10° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.3	±0.7	±1.4	±2.3	±1.8	±2.7	±5.2
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.3	±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	27	27	26	29	27	29
CPR at Boresight, dB	16	18	17	17	21	19	18
CPR at Sector, dB	12	13	16	13	12	12	10

Mechanical Specifications

Wind Loading @ Velocity, frontal	445.0 N @ 150 km/h (100.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	379.0 N @ 150 km/h (85.2 lbf @ 150 km/h)

Page 3 of 6

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RV4PX310R-E2

Wind Loading @ Velocity, maximum	942.0 N @ 150 km/h (211.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	472.0 N @ 150 km/h (106.1 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	2720 mm 107.087 in
Weight, gross	63.2 kg 139.332 lb

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



Included Products

T-029-GL-E-2

Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) OD round members for panel antennas. Includes 2 clamp sets.

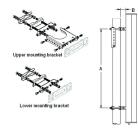
* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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T-029-GL-E-2



Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) 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 Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	50 mm 1.969 in
Antenna-to-Pipe Distance	85 mm 3.346 in
Bracket-to-Bracket Distance	1400 mm 55.118 in
Weight, net	6.5 kg 14.33 lb
Material Specifications	
Material Type	Galvanized steel
Mechanical Specifications	
Mechanical Tilt	0°-8°
Packaging and Weights	
Included	Brackets Hardware

Included

Brackets | Hardware

Packaging quantity

Regulatory Compliance/Certifications

Agency

Classification

1

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Page 5 of 6

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Page 6 of 6

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