RV4PX310R-V2



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

This product will be discontinued on: November 30, 2024

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

Page 1 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 11, 2024

COMMSCOPE®

RV4PX310R-V2

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 kg 85.98 lb

Array Layout

	_	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
		R1	694-960	1-2	1	ARxxxxxxxxxxxxx1
Y2	¥4	Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxx2
		Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
		Y3	1695-2690	7-8	4	ARxxxxxxxxxxxxxx4
Y1	V3	Y4	1695-2690	9-10	5	ARxxxxxxxxxxxxxxx5
YI	Y3					

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
Gain, dBi	16	16.6	16.9	16.8	16.9	17.2	18
Beamwidth, Horizontal, degrees	69	68	66	63	62	63	61
Beamwidth, Vertical, degrees	9.9	8.7	8.1	8.3	7.7	7.1	б
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

Page 2 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 11, 2024

COMMSCOPE°

RV4PX310R-V2

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	200	200	200	175	175	175	175

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

Effective Projective Area (EPA), frontal	0.42 m² 4.521 ft²
Effective Projective Area (EPA), lateral	0.36 m² 3.875 ft²
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)
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)

Page 3 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 11, 2024



Packaging and Weights

Width, packed	456 mm 17.953 in
Depth, packed	357 mm 14.055 in
Length, packed	2834 mm 111.575 in
Weight, gross	56 kg 123.459 lb

Regulatory Compliance/Certifications

9001.2015

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

L L 🤍

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

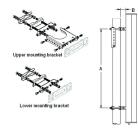
Performance Note Severe environmental conditions may degrade optimum performance

Page 4 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: January 11, 2024



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 Specification	S
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

Page 5 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 24, 2023



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
	015

Page 6 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: November 24, 2023

