RVVPX310.11R-V2

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

OBSOLETE

This product was discontinued on: March 27, 2020

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	7-16 DIN 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)

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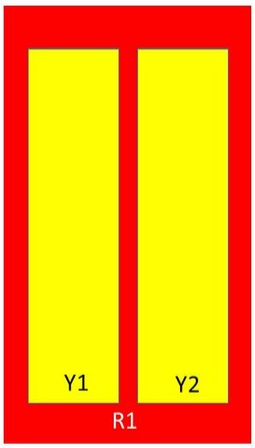
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	350 mm | 13.78 in
Depth	208 mm | 8.189 in
Length	2533 mm | 99.724 in
Net Weight, without mounting kit	32 kg | 70.548 lb

Array Layout



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

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxxx1
Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxxxx2
Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxx3

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	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	16.4	16.8	17	17.4	17.8	18	18.5
Beamwidth, Horizontal, degrees	69	67	64	62	60	62	61
Beamwidth, Vertical, degrees	10	8.9	8.2	7.6	7.1	6.6	5.5

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Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	20	20	21	21	20	20	20
Null Fill, dB	-17	-19	-20	-27	-26	-26	-21
Front-to-Back Ratio at 180°, dB	29	31	31	34	39	38	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
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	16	16.6	16.9	17	17.5	17.8	18.2
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.2	±0.1	±0.4	±0.4	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0 ° | 16.0 5 ° | 16.0 10 ° | 16.0	0 ° | 16.6 5 ° | 16.6 10 ° | 16.6	0 ° | 16.9 5 ° | 16.9 10 ° | 16.9	0 ° | 17.0 5 ° | 17.0 10 ° | 17.1	0 ° | 17.5 5 ° | 17.5 10 ° | 17.6	0 ° | 17.8 5 ° | 17.8 10 ° | 17.8	0 ° | 18.3 5 ° | 18.3 10 ° | 18.1
Beamwidth, Horizontal Tolerance, degrees	±0.9	±1.1	±1.9	±3	±1.5	±2.7	±6.3
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.3	±0.4	±0.3	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	20	20	21	20	20	19	19
Front-to-Back Total Power at 180° ± 30°, dB	26	26	26	27	28	26	29
CPR at Boresight, dB	15	17	17	18	21	20	19
CPR at Sector, dB	12	12	14	12	12	12	9

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)
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 | 149.75 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	54 kg | 119.049 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

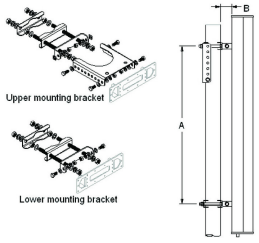
Included Products

T-029-GL-E	–	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

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	Pipe mount 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

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