

RVVPX308.14R3



6-port sector antenna, 2x 698–960 and 4x 1710–2690 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

OBSOLETE

This product was discontinued on: March 27, 2020

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
Radome Material	ASA, UV stabilized
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	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	3 female 3 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

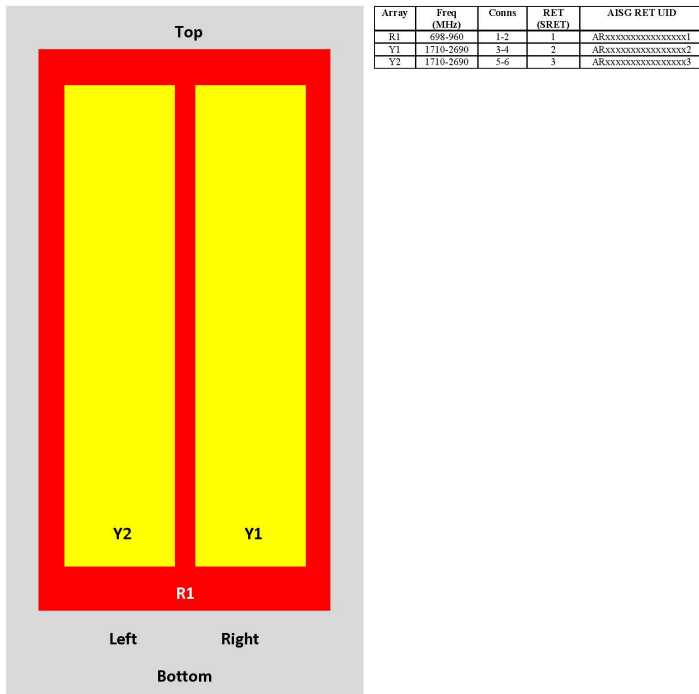
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Dimensions

Width	353 mm 13.898 in
Depth	209 mm 8.228 in
Length	2065 mm 81.299 in
Net Weight, without mounting kit	28 kg 61.729 lb

Array Layout

RVVPX



View from the front of the antenna

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz 698 – 960 MHz
Polarization	±45°

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Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	15.3	15.5	16.1	18	18.4	19.2
Beamwidth, Horizontal, degrees	68.2	68.8	63	62	63.3	62
Beamwidth, Vertical, degrees	12.4	11	10.1	5.8	5.1	4.2
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	14
Null Fill, dB	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	25	24	25	29	33	31
CPR at Boresight, dB	17	12	12	19	16	15
CPR at Sector, dB	10	9.6	9	7.1	5.3	4
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR Return loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	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
Input Power per Port, maximum, watts	300	300	300	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	14.8	15.1	15.7	17.6	18.1	18.6
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.2	±0.6	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0° 14.9 5° 14.8 10° 14.7	0° 15.1 5° 15.1 10° 15.0	0° 15.7 5° 15.7 10° 15.6	0° 17.6 5° 17.6 10° 17.6	0° 18.0 5° 18.0 10° 18.1	0° 18.6 5° 18.7 10° 18.3
Beamwidth, Horizontal Tolerance, degrees	±1.2	±2	±1.7	±2.8	±5.4	±6.6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.4	±0.3	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	25.3	23.1	23.6	23.4	24.9	25.4
CPR at Boresight, dB	16	13	13	19	18	18

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CPR at Sector, dB	11	10	8	7	5	5
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Mechanical Specifications

Wind Loading @ Velocity, frontal	926.0 N @ 150 km/h (208.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	951.0 N @ 150 km/h (213.8 lbf @ 150 km/h)
Wind Speed, maximum	250 km/h (155 mph)

Packaging and Weights

Width, packed	430 mm 16.929 in
Depth, packed	325 mm 12.795 in
Length, packed	2260 mm 88.976 in
Weight, gross	45 kg 99.208 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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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