

RVVPX308.11B-T2



6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET with manual override and internal Bias-Tee's.

- Internal RET actuators are connected in SRET configuration, with dedicated AISG ports for each band
- Each port has an integrated bias tee, and each band has its own smart switch that automatically selects between bias tee or AISG inputs according to a predetermined priority table

OBSOLETE

This product was discontinued on: **March 31, 2021**

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector 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 3 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 2 Port 3 Port 4 Port 5 Port 6
Internal RET	High band (2) Low band (1)

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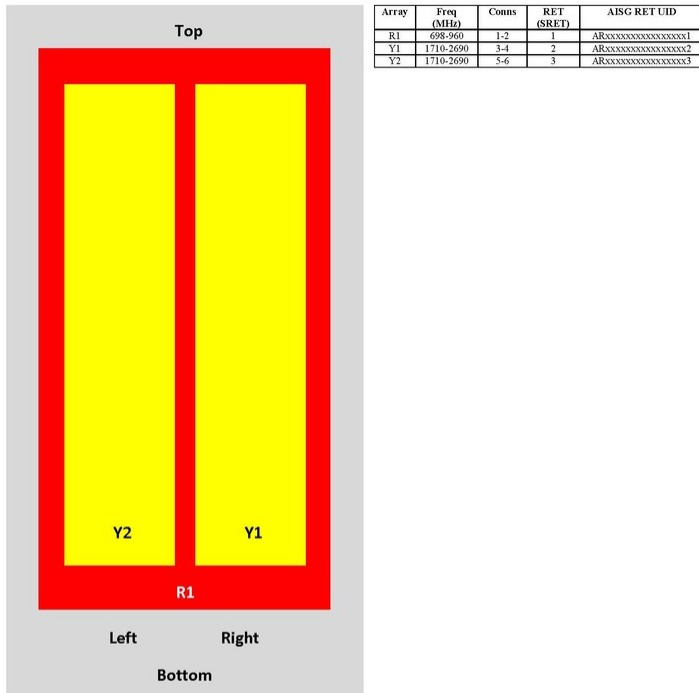
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2065 mm 81.299 in
Net Weight, without mounting kit	29.7 kg 65.477 lb

Array Layout

RVVPX



View from the front of the antenna
(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2690
Gain, dBi	15.3	15.9	16.2	17.4	17.9	18.4
Beamwidth, Horizontal, degrees	69	67	65	62	62	62
Beamwidth, Vertical, degrees	12.5	11.1	10.2	7.5	6.6	5.4
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	29	32	33	33	38	38
Isolation, Cross Polarization, dB	28	28	28	30	30	30
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	175	175	175	175	175	175

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2180	2300–2690
Gain by all Beam Tilts, average, dBi	15.1	15.7	16.1	17.1	17.7	18.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.1	±0.5	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0° 15.1 5° 15.1 10° 15.0	0° 15.7 5° 15.7 10° 15.7	0° 16.1 5° 16.1 10° 16.1	0° 17.1 5° 17.1 10° 17.2	0° 17.7 5° 17.7 10° 17.7	0° 18.2 5° 18.2 10° 18.0
Beamwidth, Horizontal Tolerance, degrees	±0.9	±1.1	±1.8	±2.8	±2.5	±5.8
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.3	±0.5	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18

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Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26	28	29
CPR at Boresight, dB	15	17	17	18	20	19
CPR at Sector, dB	12	12	14	13	12	10

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	50.2 kg 110.672 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
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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