RVVPX306.11B-T2

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET with manual override and SBT on every RF port

- 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
- All Internal RET actuators are in SRET configuration, with dedicated AISG ports for each band

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

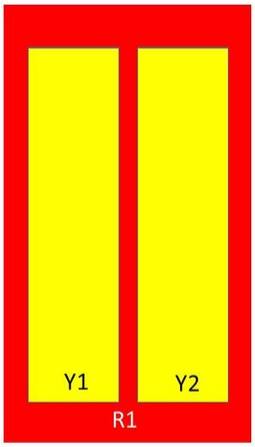
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 3 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 2 | Port 3 | Port 4 | Port 5 | Port 6
Internal RET	High band (2) | Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RVVPX306.11B-T2

Width	350 mm | 13.78 in
Depth	208 mm | 8.189 in
Length	1584 mm | 62.362 in
Net Weight, without mounting kit	24.7 kg | 54.454 lb

Array Layout



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

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

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	650 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–1920**	**1920–2180**	**2300–2690**
Gain, dBi	14.3	14.9	15.2	17.2	17.8	18.4
Beamwidth, Horizontal, degrees	69	67	66	62	62	64
Beamwidth, Vertical, degrees	16.5	14.6	13.6	7.5	6.7	5.5
Beam Tilt, degrees	2–12	2–12	2–12	0–10	0–10	0–10
USLS (First Lobe), dB	15	18	21	18	20	19
Front-to-Back Ratio at 180°, dB	30	32	33	36	37	38
Isolation, Cross Polarization, dB	27	27	27	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28
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	150	150	150	150	150	100

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	14.1	14.8	15	16.9	17.6	18.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3	±0.5	±0.5	±0.3
Gain by Beam Tilt, average, dBi	2 ° | 14.2 7 ° | 14.1 12 ° | 14.0	2 ° | 14.8 7 ° | 14.8 12 ° | 14.7	2 ° | 15.0 7 ° | 15.1 12 ° | 15.0	0 ° | 16.8 5 ° | 16.9 10 ° | 16.9	0 ° | 17.6 5 ° | 17.6 10 ° | 17.6	0 ° | 18.2 5 ° | 18.3 10 ° | 18.2
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1	±1.6	±2.9	±1.9	±3.2
Beamwidth, Vertical Tolerance, degrees	±1	±0.8	±0.5	±0.5	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	22	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	25	26	29	27	29
CPR at Boresight, dB	20	19	20	19	20	19
CPR at Sector, dB	12	12	15	10	11	9

Mechanical Specifications

Wind Loading @ Velocity, frontal	255.0 N @ 150 km/h (57.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	214.0 N @ 150 km/h (48.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	540.0 N @ 150 km/h (121.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	270.0 N @ 150 km/h (60.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	420 mm | 16.535 in
Depth, packed	310 mm | 12.205 in
Length, packed	1760 mm | 69.291 in
Weight, gross	41.4 kg | 91.271 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-041-GL-E	–	Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance