RVVPX303.6F12R2

6-port sector antenna, 2x 694–960 and 4x 1710–2690 MHz, 65° HPBW, fixed electrical tilt (12°) low band, 2x RET on both high band arrays with a separate pair of AISG Input and Output ports per array.

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

Dimensions

Width	353 mm | 13.898 in
Depth	209 mm | 8.228 in

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Length	919 mm | 36.181 in
Net Weight, without mounting kit	13.3 kg | 29.321 lb

Array Layout

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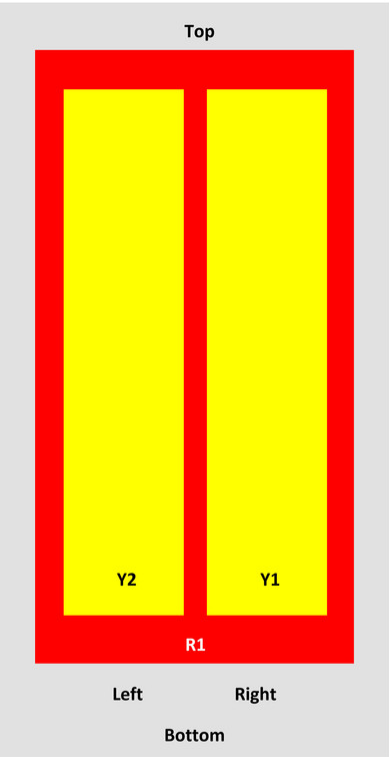

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2		
Y1	1710-2690	3-4	1	ARxxxxxxxxxxxxxxx1
Y2	1710-2690	5-6	2	ARxxxxxxxxxxxxxxx2

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 | 694 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1710–1920**	**1920–2170**	**2300–2690**
Gain, dBi	11.7	11.8	12.1	14.8	15.3	16.1

Beamwidth, Horizontal, degrees	69	69	61	62	63	61.5
Beamwidth, Vertical, degrees	30.6	29.1	26.1	13.7	12.1	9.6
Beam Tilt, degrees	12	12	12	0–10	0–10	0–10
USLS (First Lobe), dB	15	16	13	19	16	15
Front-to-Back Ratio at 180°, dB	26	22	25	29	32	31
CPR at Boresight, dB	17	18	19	20	18	17
CPR at Sector, dB	13	8	5	7	5	5
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	**694–790**	**790–890**	**890–960**	**1710–1920**	**1920–2170**	**2300–2690**
Gain by all Beam Tilts, average, dBi	11.5	11.5	11.7	14.6	14.9	15.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.4	±0.4	±0.5
Gain by Beam Tilt, average, dBi				0 ° | 14.5 5 ° | 14.5 10 ° | 14.6	0 ° | 14.9 5 ° | 14.9 10 ° | 15.0	0 ° | 15.9 5 ° | 15.8 10 ° | 15.5
Beamwidth, Horizontal Tolerance, degrees	±1.4	±2.4	±1.6	±2.5	±3.8	±5.1
Beamwidth, Vertical Tolerance, degrees	±1.7	±2.6	±2.8	±0.8	±1	±0.9
USLS, beampeak to 20° above beampeak, dB	17	16	14	19	18	15
Front-to-Back Total Power at 180° ± 30°, dB	26	22	23	24	26	25
CPR at Boresight, dB	18	19	19	22	20	18
CPR at Sector, dB	14	8	6	8	5	5

Mechanical Specifications

Wind Loading @ Velocity, frontal	383.0 N @ 150 km/h (86.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	135.0 N @ 150 km/h (30.3 lbf @ 150 km/h)

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Wind Loading @ Velocity, rear	393.0 N @ 150 km/h (88.3 lbf @ 150 km/h)
Wind Speed, maximum	250 km/h (155 mph)

Packaging and Weights

Width, packed	430 mm | 16.929 in
Depth, packed	330 mm | 12.992 in
Length, packed	1110 mm | 43.701 in
Weight, gross	27 kg | 59.525 lb

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/Exempted

Included Products

T-108-GL-E	–	Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance