6-port sector antenna, 2x 698–960 and 4x 1710–2690 MHz, 65° HPBW, 3x RET with manual override. Bands cascaded SRET.

- 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

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

 Performance Note
 Outdoor usage

 Radome Material
 ASA, UV stabilized

Radiator Material Aluminum | 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)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 296 mm | 11.654 in **Depth**

244 mm | 9.606 in Length 2490 mm | 98.032 in

Net Weight, without mounting kit 29 kg | 63.934 lb

Array Layout

RVVPX310R-V

Аггау	Freq (MHz)	Conns	(SRET)	AISG RET UID
R1	698-960	1-2	1	ARXXXXXXXXXXXXXXXXX
Y1	1710-2690	3-4	2	ARxxxxxxxxxxxxxxxxxxxxx2
Y2	1710-2690	5-6	3	ARXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Тор **Y1** Bottom

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

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Electrical	Specifications
	-pccco

Frequency Band, MHz	698-790	790-890	890-960	1710-1920	1920-2170	2300-2690
Gain, dBi	15.2	16	16.5	16	17	17.4
Beamwidth, Horizontal, degrees	70.8	67.6	62.2	67	60.8	59.1
Beamwidth, Vertical, degrees	9.9	8.8	7.8	8.5	7.4	6
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	18	16	16	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	35	35	31	31	34	34
CPR at Boresight, dB	14	17	16	17	20	13
CPR at Sector, dB	10	14	10	15	10	1
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	15.1	15.8	16.1	15.8	16.9	17.2
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.4	±0.8	±0.8	±0.9
Gain by Beam Tilt, average, dBi	0° 14.9 5° 15.2 10° 15.3	0° 15.6 5° 15.9 10° 15.9	0° 16.0 5° 16.2 10° 16.2	0° 15.9 5° 15.8 10° 15.8	0° 17.0 5° 16.9 10° 16.7	0° 17.3 5° 17.3 10° 17.1
Beamwidth, Horizontal Tolerance, degrees	±1.3	±2.4	±2.4	±3.9	±4.1	±5.5
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.2	±0.8	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB	18	17	17	18	18	18
Front-to-Back Total Power at	27	27	22	30	31	33

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180° ± 30°, dB						
CPR at Boresight, dB	15	18	16	17	20	14
CPR at Sector, dB	10	14	9	15	11	1

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 844.0 N @ 150 km/h (189.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 605.0 N @ 150 km/h (136.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 937.0 N @ 150 km/h (210.6 lbf @ 150 km/h)

Wind Speed, maximum 250 km/h (155 mph)

Packaging and Weights

 Width, packed
 374 mm | 14.724 in

 Depth, packed
 363 mm | 14.291 in

 Length, packed
 2677 mm | 105.394 in

 Weight, gross
 54 kg | 119.049 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
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

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