RVV2NPX310.211R

10-port sector antenna, 2x 694–960 MHz 65° HPBW, 4x 1695-2690 MHz 65° HPBW and 2x 1695-2180 MHz 2x 33° HPBW, 5x 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

This product will be discontinued on: December 31, 2025

Replaced By:

RVV2H-6533D-R5	10-port sector antenna, 2x 694–960 and 4x 1695-2690 MHz 65° HPBW and 4x 1695-2180 MHz 2x 33° HPBW, 5x RET.

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 | 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	8
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 1 male

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Input Voltage	10–30 Vdc
Internal RET	High band (4) | 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

Width	350 mm | 13.78 in
Depth	208 mm | 8.189 in
Length	2,763.5 mm | 108.799 in
Net Weight, without mounting kit	46.1 kg | 101.633 lb

Array Layout

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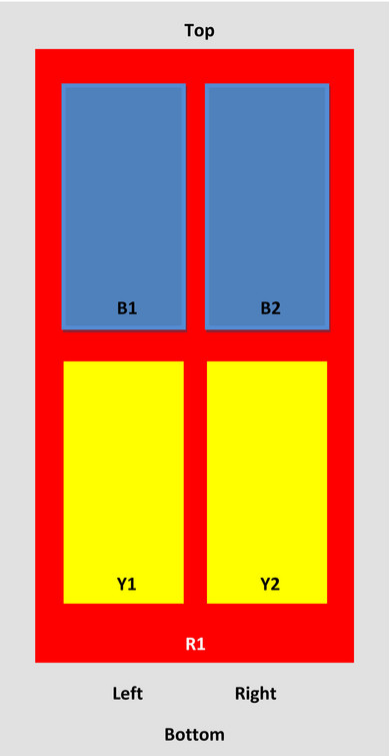

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxx1
B1	1695-2180	3-4	2	ARxxxxxxxxxxxxxxx2
B2	1695-2180	5-6	3	ARxxxxxxxxxxxxxxx3
Y1	1695-2690	7-8	4	ARxxxxxxxxxxxxxxx4
Y2	1695-2690	9-10	5	ARxxxxxxxxxxxxxxx5

View from the front of the antenna

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

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Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2180 MHz | 1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°

Electrical Specifications

	LB	LB	LB	HB	HB	HB	HB-Dual-Beam2	HB-Dual-Beam2
Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–1920**	**1920–2180**	**2300–2690**	**1695–1920**	**1920–2180**
Gain, dBi	16.2	16.5	16.7	17.5	18.2	18.8	17.2	18.8
Beam Centers, Horizontal, degrees							±31	±28
Beamwidth, Horizontal, degrees	69	68	68	62	62	61	36	32
Beamwidth, Vertical, degrees	10.1	8.9	8.3	7.5	6.7	5.5	7.7	6.9
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22	-22	-22

Front-to-Back Ratio at 180°, dB	31	33	34	35	38	38	28	33
Front-to-Back Total Power at 180° ± 30°, dB	27	27	27	27	27	29	24	27
Isolation, Cross Polarization, dB	28	28	28	30	30	30	25	25
Isolation, Beam to Beam, dB							18	18
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	1.43 | 15.0	1.43 | 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250	250	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	493.0 N @ 150 km/h (110.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	423.0 N @ 150 km/h (95.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,044.0 N @ 150 km/h (234.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	523.0 N @ 150 km/h (117.6 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	2985 mm | 117.52 in
Weight, gross	68.5 kg | 151.016 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
ROHS	Compliant
UK-ROHS	Compliant

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