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: November 30, 2024

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, 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
Input Voltage	10–30 Vdc

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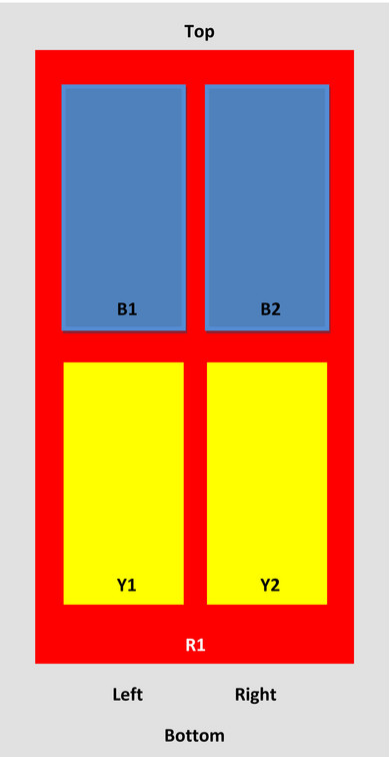
Internal RET	High band (4) | Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

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

RVV2NPX310.211R



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)

RVV2NPX310.211R

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	31	33	34	35	38	38	28	33

180°, dB								
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

Electrical Specifications, BASTA

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–1920**	**1920–2180**	**2300–2690**	**1695–1920**	**1920–2180**
Gain by all Beam Tilts, average, dBi	15.9	16.4	16.6	17.1	17.9	18.3	16.4	18.4
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.2	±0.6	±0.4	±0.6	±1.2	±0.6
Gain by Beam Tilt, average, dBi	0 ° | 15.9 5 ° | 15.9 10 ° | 15.9	0 ° | 16.4 5 ° | 16.4 10 ° | 16.5	0 ° | 16.6 5 ° | 16.7 10 ° | 16.5	0 ° | 17.1 5 ° | 17.1 10 ° | 17.2	0 ° | 18.0 5 ° | 18.0 10 ° | 17.8	0 ° | 18.3 5 ° | 18.3 10 ° | 18.2	0 ° | 16.4 5 ° | 16.3 10 ° | 16.4	0 ° | 18.4 5 ° | 18.4 10 ° | 18.3
Beamwidth, Horizontal Tolerance, degrees	±0.8	±0.6	±1	±2.9	±2.8	±5.8	±2	±2.3
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3	±0.5	±0.5	±0.4	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18	18	18
CPR at Boresight, dB	15	16	16	20	20	20	12	10
CPR at Sector, dB	11	11	13	11	11	8	7	5

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	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

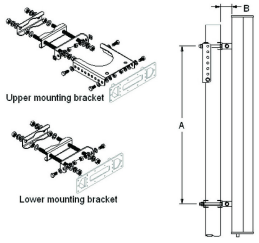
Included Products

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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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.

Product Classification

Product Type	Adjustable tilt mounting kit

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Length, maximum	2850 mm | 112.205 in
Compatible Length, minimum	1500 mm | 59.055 in
Compatible Diameter, maximum	115 mm | 4.528 in
Compatible Diameter, minimum	60 mm | 2.362 in
Antenna-to-Pipe Distance	85 mm | 3.346 in
Bracket-to-Bracket Distance	1400 mm | 55.118 in
Weight, net	6 kg | 13.228 lb

Material Specifications

Material Type	Galvanized steel

Mechanical Specifications

Mechanical Tilt	0°–8°

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

T-029-GL-E

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