

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

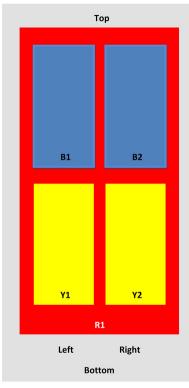
Page 1 of 5



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



View from the front of the antenna

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





### 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	НВ	НВ	HB-Dual-Beam	2HB-Dual-Beam2
Frequency Band, MHz	694-790	790-890	890-960	1695-192	0 1920–218	0 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 Dans 0 af

Page 3 of 5



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	1695-192	0 1920-218	0 2300-269	0 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

Page 4 of 5



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
C E 🐠 📱	<b>50</b> 1:2015

#### 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

Page 5 of 5

