

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 $2x 33^{\circ}$ 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 7-16 DIN Female

RF Connector Location

RF Connector Quantity, high band

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

COMMSCOPE®

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

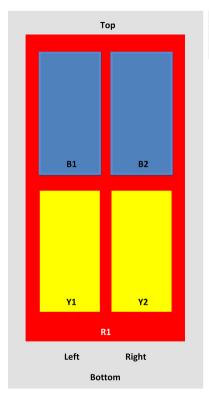
 Depth
 208 mm | 8.189 in

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		
RI	694-960	1-2	1	ARxxxxxxxxxxxxxxxxx1		
Bl	1695-2180	3-4	2	ARxxxxxxxxxxxxxxxx2		
B2	1695-2180	5-6	3	ARxxxxxxxxxxxxxxxx3		
Y1	1695-2690	7-8	4	ARxxxxxxxxxxxxxxx4		
V2	1695-2690	9-10	- 5	ARvvvvvvvvvvvvvvv		

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	НВ	НВ	НВ	HB-Dual-Beam2HB-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

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



 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

