

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

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
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

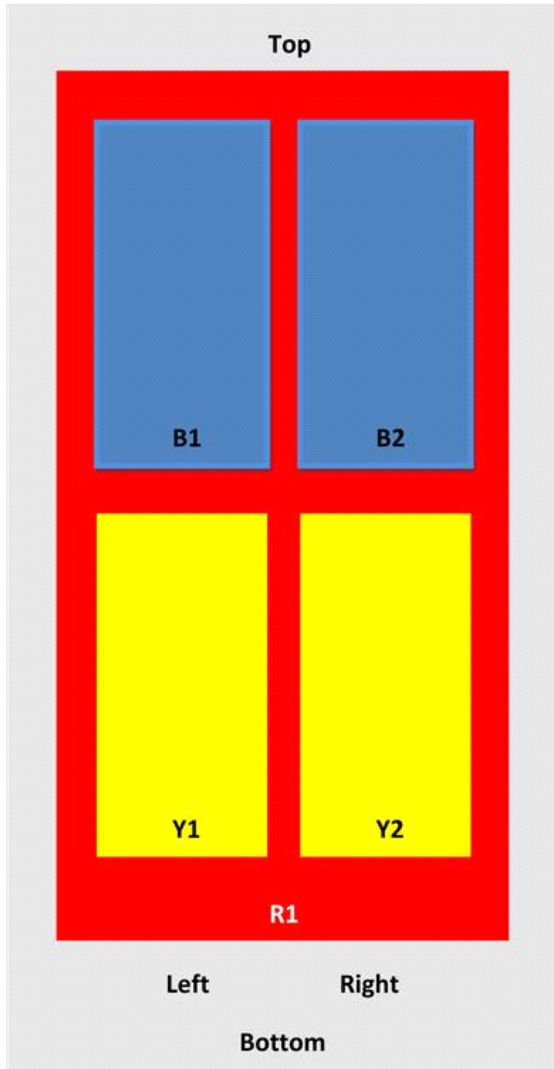
Electrical Specifications, BASTA*

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

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

Array Layout

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Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARXXXXXXXXXXXXXXXXX1
B1	1695-2180	3-4	2	ARXXXXXXXXXXXXXXXXX2
B2	1695-2180	5-6	3	ARXXXXXXXXXXXXXXXXX3
Y1	1695-2690	7-8	4	ARXXXXXXXXXXXXXXXXX4
Y2	1695-2690	9-10	5	ARXXXXXXXXXXXXXXXXX5

View from the front of the antenna

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

General Specifications

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Operating Frequency Band	1695 – 2180 MHz 1695 – 2690 MHz 694 – 960 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	10
RF Connector Quantity, low band	2
RF Connector Quantity, high band	8
RF Connector Interface	7-16 DIN Female
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	111.1 lbf @ 150 km/h 493.0 N @ 150 km/h
Wind Loading, lateral	423.0 N @ 150 km/h 95.1 lbf @ 150 km/h
Wind Loading, maximum	1044.0 N @ 150 km/h 234.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	2763.5 mm 108.8 in
Width	350.0 mm 13.8 in
Depth	208.0 mm 8.2 in
Net Weight, without mounting kit	46.1 kg 101.6 lb

Remote Electrical Tilt (RET) Information

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

Packed Dimensions

Length	2985.0 mm 117.5 in
Width	436.0 mm 17.2 in

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Depth 320.0 mm | 12.6 in
Shipping Weight 68.5 kg | 151.0 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives



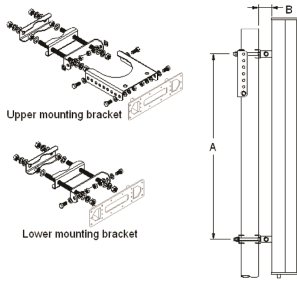
Included Products

T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance



Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

General Specifications

Application	Outdoor
Includes	Brackets Hardware
Package Quantity	1

Mechanical Specifications

Color	Silver
Material Type	Galvanized steel
Mechanical Tilt	0°-8°

Dimensions

Antenna-to-Pipe Distance	85.0 mm 3.3 in
Bracket-to-Bracket Distance	1400.0 mm 55.1 in
Compatible Diameter, maximum	115.0 mm 4.5 in
Compatible Diameter, minimum	60.0 mm 2.4 in
Compatible Length, maximum	2850.0 mm 112.2 in
Compatible Length, minimum	1500.0 mm 59.1 in
Net Weight	6.0 kg 13.2 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)
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