

R2V2PX310R



8-port sector antenna, 4x 694–960 and 4x 1710–2690 MHz, 65° HPBW, 4x RET with manual override.

- 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

OBSOLETE

This product was discontinued on: December 31, 2018

Replaced By

RRVV-65D-R4	8-port sector antenna, 4x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET
RRVV-65D-R4-V2	8-port sector antenna, 4x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET, includes retractable tilt rods

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	15.9	16.4	16.7	16.1	17.3	17.7
Beamwidth, Horizontal, degrees	64	62	59	61	58	58
Beamwidth, Vertical, degrees	10.2	8.9	8.1	8.4	7.4	5.9
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	16	16	15	18	18	18
Front-to-Back Ratio at 180°, dB	32	33	32	31	32	35
CPR at Boresight, dB	15	21	20	22	20	10
CPR at Sector, dB	10	13	12	13	10	4
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	28	30	30	27	28	30
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	694–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	15.5	16.1	16.3	15.9	16.9	17.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.3	±0.6	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 15.5 5° 15.5 10° 15.5	0° 16.1 5° 16.0 10° 16.1	0° 16.4 5° 16.3 10° 16.3	0° 15.9 5° 15.9 10° 16.0	0° 17.0 5° 16.9 10° 16.7	0° 17.7 5° 17.7 10° 17.6
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.3	±2.4	±2.8	±2.6	±4.8
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.3	±0.6	±0.6	±0.6

R2V2PX310R

USLS, beampeak to 20° above beampeak, dB	16	16	15	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	26	27	25	29	30	30
CPR at Boresight, dB	16	23	20	26	20	12
CPR at Sector, dB	10	13	10	14	11	4

* 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](#).

General Specifications

Operating Frequency Band	1710 – 2690 MHz 694 – 960 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	8
RF Connector Quantity, low band	4
RF Connector Quantity, high band	4
RF Connector Interface	7-16 DIN Female
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Brass Low loss circuit board
Radome Material	ASA, UV stabilized
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Speed, maximum	250 km/h 155 mph

Dimensions

Length	2490.0 mm 98.0 in
Width	641.0 mm 25.2 in
Depth	244.0 mm 9.6 in
Net Weight, without mounting kit	60.0 kg 132.3 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

R2V2PX310R

RET Interface 8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity 2 female | 2 male

Packed Dimensions

Length 2677.0 mm | 105.4 in
Width 719.0 mm | 28.3 in
Depth 363.0 mm | 14.3 in
Shipping Weight 90.0 kg | 198.4 lb

Regulatory Compliance/Certifications

Agency

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

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)



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.
ATCB-B01-C50 — AISG RET Control Cable, 0.5 m

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance