

# R2V4PX306R

12-port sector antenna, 4x 698–960 and 8x 1710–2690 MHz, 65° HPBW, 6x RET with manual override. Bands cascaded SRET (Antenna 1 and Antenna 2).



## Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	14.2	14.8	15.1	15.1	16.4	16.9
Beamwidth, Horizontal, degrees	65	63	60	62	57	58
Beamwidth, Vertical, degrees	16.3	14.5	13.3	13.7	12.1	9.9
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	32	31	29	29	32	32
CPR at Boresight, dB	23	16	15	22	21	14
CPR at Sector, dB	15	13	11	11	10	3
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	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	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	13.8	14.4	14.8	14.9	15.9	16.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.2	±0.7	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0 °   13.8 5 °   13.8 10 °   13.8	0 °   14.4 5 °   14.4 10 °   14.4	0 °   14.8 5 °   14.8 10 °   14.8	0 °   15.0 5 °   14.9 10 °   14.8	0 °   16.0 5 °   15.9 10 °   15.6	0 °   16.6 5 °   16.6 10 °   16.3
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.3	±2.4	±5	±2.6	±5.3
Beamwidth, Vertical Tolerance, degrees	±1	±0.8	±0.4	±1	±1	±0.9
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	26	24	29	31	31
CPR at Boresight, dB	22	16	15	22	21	14
CPR at Sector, dB	15	12	11	11	10	3

\* 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

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<b>Operating Frequency Band</b>	1710 – 2690 MHz   698 – 960 MHz
<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	12
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, high band</b>	8
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Brass   Low loss circuit board
<b>Radome Material</b>	ASA, UV stabilized
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	1,296.0 N @ 150 km/h   291.4 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	274.0 N @ 150 km/h   61.6 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	250 km/h   155 mph

## Dimensions

<b>Length</b>	1607.0 mm   63.3 in
<b>Width</b>	641.0 mm   25.2 in
<b>Depth</b>	244.0 mm   9.6 in
<b>Net Weight, without mounting kit</b>	49.0 kg   108.0 lb

## Remote Electrical Tilt (RET) Information

<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (4)   Low band (2)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male

## Packed Dimensions

<b>Length</b>	1810.0 mm   71.3 in
<b>Width</b>	739.0 mm   29.1 in
<b>Depth</b>	347.0 mm   13.7 in

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## Shipping Weight

73.0 kg | 160.9 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-041-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