

# CNNPX310R-6P



6-port sector antenna, 2x 824–960 and 4x 1710–2170 MHz, 65° HPBW, 3x RET with manual override.

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays

## Electrical Specifications

Frequency Band, MHz	824–890	890–960	1710–1880	1920–2170
Gain, dBi	17.0	17.5	16.8	17.8
Beamwidth, Horizontal, degrees	67	62	68	63
Beamwidth, Vertical, degrees	7.5	7.0	7.2	6.5
Beam Tilt, degrees	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18
Front-to-Back Ratio at 180°, dB	25	25	25	25
Isolation, Cross Polarization, dB	30	30	30	30
VSWR   Return Loss, dB	1.43   15.0	1.43   15.0	1.43   15.0	1.43   15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	300	300
Polarization	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm

## General Specifications

<b>Operating Frequency Band</b>	1710 – 2170 MHz   824 – 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>	6
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, high band</b>	4
<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>Radome Material</b>	Polyester fiberglass pultrusion
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, maximum</b>	1430.0 N @ 160 km/h 321.5 lbf @ 160 km/h
<b>Wind Speed, maximum</b>	200 km/h   124 mph

## Dimensions

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<b>Length</b>	2630.0 mm   103.5 in
<b>Width</b>	370.0 mm   14.6 in
<b>Depth</b>	120.0 mm   4.7 in
<b>Net Weight, without mounting kit</b>	36.5 kg   80.5 lb

## Remote Electrical Tilt (RET) Information

<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (2)   Low band (1)
<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 Male
<b>RET Interface, quantity</b>	1 male

## Packed Dimensions

<b>Length</b>	2755.0 mm   108.5 in
<b>Width</b>	440.0 mm   17.3 in
<b>Depth</b>	216.0 mm   8.5 in
<b>Shipping Weight</b>	38.5 kg   84.9 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.

## \* Footnotes

### Performance Note

Severe environmental conditions may degrade optimum performance