

# LLPX310R-V1



4-port sector antenna, 4x 2300–2700 MHz, 65° HPBW, 2x RET with manual override

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

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Polyester fiberglass pultrusion
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Male
<b>RET Interface, quantity</b>	1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High 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)

## Dimensions

<b>Width</b>	300 mm   11.811 in
<b>Depth</b>	115 mm   4.528 in
<b>Length</b>	1077 mm   42.402 in
<b>Net Weight, without mounting kit</b>	13 kg   28.66 lb

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## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	2300 – 2700 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>2300–2500</b>	<b>2500–2700</b>
<b>Gain, dBi</b>	17.2	17.8
<b>Beamwidth, Horizontal, degrees</b>	65	63
<b>Beamwidth, Vertical, degrees</b>	7	6.5
<b>Beam Tilt, degrees</b>	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	18
<b>Front-to-Back Ratio at 180°, dB</b>	30	30
<b>Isolation, Cross Polarization, dB</b>	30	30
<b>VSWR   Return loss, dB</b>	1.43   15.0	1.43   15.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150
<b>Input Power per Port, maximum, watts</b>	250	250

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## Mechanical Specifications

<b>Wind Loading @ Velocity, maximum</b>	450.0 N @ 160 km/h (101.2 lbf @ 160 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	366 mm   14.409 in
<b>Depth, packed</b>	213 mm   8.386 in
<b>Length, packed</b>	1260 mm   49.606 in
<b>Weight, gross</b>	21.5 kg   47.399 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

T-045-GL-E	–	Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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