

# RPX310B-S9-T2



2-port sector antenna, 2x 694–960 MHz, 65° HPBW, >25dB USLS, 9 - 18°, 1x RET tilt with manual override. Internal Bias-Tees.

- Each port has an integrated bias tee, and each band has its own smart switch that automatically selects between bias tee or AISG inputs according to a predetermined priority table

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960
Gain, dBi	15.8	16.3	16.6
Beamwidth, Horizontal, degrees	67	66	63
Beamwidth, Vertical, degrees	11.5	10.2	9.3
Beam Tilt, degrees	9–18	9–18	9–18
USLS (First Lobe), dB	25	25	25
Front-to-Back Ratio at 180°, dB	29	29	30
Isolation, dB	30	30	30
VSWR   Return Loss, dB	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	200	200	200
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	694–790	790–890	890–960
Gain by all Beam Tilts, average, dBi	15.5	16.1	16.5
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3
Gain by Beam Tilt, average, dBi	9 °   15.6 13 °   15.5 18 °   15.5	9 °   16.1 13 °   16.1 18 °   16.0	9 °   16.5 13 °   16.5 18 °   16.4
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.8	±1.7
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	25	25	25
Front-to-Back Total Power at 180° ± 30°, dB	26	25	24
CPR at Boresight, dB	17	17	18
CPR at Sector, dB	9	8	9

\* 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	694 – 960 MHz
Antenna Type	Sector

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<b>Band</b>	Single band
<b>Performance Note</b>	Outdoor usage
<b>Total Input Power, maximum</b>	300 W @ 50 °C

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	2
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Radome Material</b>	Fiberglass, UV resistant
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	445.0 N @ 150 km/h 100.0 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	379.0 N @ 150 km/h 85.2 lbf @ 150 km/h
<b>Wind Loading, maximum</b>	942.0 N @ 150 km/h 211.8 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	2533.0 mm   99.7 in
<b>Width</b>	350.0 mm   13.8 in
<b>Depth</b>	208.0 mm   8.2 in
<b>Net Weight, without mounting kit</b>	27.0 kg   59.5 lb

## Remote Electrical Tilt (RET) Information

<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 2
<b>Internal RET</b>	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 Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male

## Packed Dimensions

<b>Length</b>	2720.0 mm   107.1 in
<b>Width</b>	436.0 mm   17.2 in
<b>Depth</b>	320.0 mm   12.6 in

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## Shipping Weight

47.0 kg | 103.6 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-125-GL — Adjustable Tilt Pipe Mounting Kit for 3.0" (75mm) OD round members for panel antennas. Includes 2 clamp sets.

## \* Footnotes

### Performance Note

Severe environmental conditions may degrade optimum performance