# RPX310B-T2H



2-port sector antenna, 2x 694–960 MHz, 65° HPBW, 1x RET with manual override. Internal Bias-Tee on both RF ports.

- Each port has an integrated bias tee, and a smart switch that automatically selects between bias tee and AISG ports according to a predetermined priority table
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

### General Specifications

Antenna Type Sector

**Band** Single band

**Grounding Type**RF connector body grounded to reflector and mounting bracket

Performance Note

Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

**Radome Material** Fiberglass, UV resistant

Radiator Material Low loss circuit board

**Reflector Material** Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location**Bottom

RF Connector Quantity, low band 2

RF Connector Quantity, total

### Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 2

Internal RET High band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

**Width** 350 mm | 13.78 in

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 Depth
 208 mm | 8.189 in

 Length
 2533 mm | 99.724 in

 Net Weight, without mounting kit
 26.8 kg | 59.084 lb

**Electrical Specifications** 

**Impedance** 50 ohm

**Operating Frequency Band** 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum  $\,$  400 W  $\,$  50  $^{\circ}\mathrm{C}$ 

## **Electrical Specifications**

Frequency Band, MHz	694-790	790-890	890-960
Gain, dBi	16.3	16.8	17.1
Beamwidth, Horizontal, degrees	69	66	62
Beamwidth, Vertical, degrees	10	8.8	8.2
Beam Tilt, degrees	0-10	0-10	0-10
USLS (First Lobe), dB	19	20	21
Null Fill, dB	-20	-20	-21
Front-to-Back Ratio at 180°, dB	29	28	29
Isolation, Cross Polarization, dB	28	28	28
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 at 50°C, maximum, watts	200	200	200

### Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960
Gain by all Beam Tilts, average, dBi	16	16.7	17
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.1	±0.2
Gain by Beam Tilt, average, dBi	0° 16.1 5° 16.1 10° 16.0	0° 16.6 5° 16.7 10° 16.6	0 °   17.0 5 °   17.0 10 °   17.0
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.6	±1.8
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	19	20	20
Front-to-Back Total Power at 180° ± 30°, dB	25	24	24
CPR at Boresight, dB	14	16	16

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**CPR at Sector, dB** 12 11 10

#### Mechanical Specifications

Mechanical Tilt Range 0°-8°

 Wind Loading @ Velocity, frontal
 445.0 N @ 150 km/h (100.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 379.0 N @ 150 km/h (85.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 942.0 N @ 150 km/h (211.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 472.0 N @ 150 km/h (106.1 lbf @ 150 km/h)

Wind Speed, maximum 200 km/h (124 mph)

#### Packaging and Weights

 Width, packed
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 2834 mm | 111.575 in

 Weight, gross
 42.4 kg | 93.476 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



#### Included Products

T-029-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.362"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance



## T-029-GL-F



Adjustable Tilt Pipe Mounting Kit for 2.362"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

#### **Product Classification**

**Product Type** Adjustable tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Length, maximum2850 mm | 112.205 inCompatible Length, minimum1500 mm | 59.055 inCompatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inAntenna-to-Pipe Distance85 mm | 3.346 inBracket-to-Bracket Distance1400 mm | 55.118 inWeight, net6 kg | 13.228 lb

Material Specifications

Material Type Galvanized steel

Mechanical Specifications

Mechanical Tilt 0°-8°

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

COMMSCOPE®

# T-029-GL-E

CHINA-ROHS Below maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



