

2-port sector antenna, 2x 694–960 MHz, 65° HPBW, 1x RET with manual override. Internal Bias-Tee on +45° port.

 AISG 2.0 interfaces are via integrated internal smart bias tees on low band (694–960 MHz) RF Port 1 and a single pair of AISG 8-pin DIN input (male) and output (female) connectors

OBSOLETE

This product was discontinued on: March 31, 2021

Replaced By:

RPX310B-T2 2-port sector antenna, 2x 694–960 MHz, 65° HPBW, 1x RET with manual override. Internal Bias-Tee on

both RF ports.

General Specifications

Antenna Type Sector

Band Single band

Grounding Type RF connector body grounded to reflector and mounting bracket

Performance Note Outdoor usage

Radome Material ASA, UV stabilized

Radiator MaterialAluminumReflector MaterialAluminum

RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, low band 2
RF Connector Quantity, total 2

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



Internal RET Low 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
 353 mm | 13.898 in

 Depth
 209 mm | 8.228 in

 Length
 2533 mm | 99.724 in

Net Weight, without mounting kit 26 kg | 57.32 lb

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960
Gain, dBi	16.3	16.8	17.1
Beamwidth, Horizontal, degrees	67	64	61
Beamwidth, Vertical, degrees	10	8.8	8.1
Beam Tilt, degrees	0-10	0-10	0-10
USLS (First Lobe), dB	18	18	18
Null Fill, dB	-22	-22	-22
Front-to-Back Ratio at 180°, dB	30	28	27
CPR at Boresight, dB	20	18	15
CPR at Sector, dB	14	13	12
Isolation, Cross Polarization, dB	28	28	28
VSWR Return loss, dB	1.43 15.0	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960
Gain by all Beam Tilts, average, dBi	15.9	16.5	16.9



Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.2
Gain by Beam Tilt, average, dBi	0° 15.9 5° 16.0 10° 15.9	0° 16.5 5° 16.5 10° 16.5	0° 16.9 5° 16.9 10° 16.8
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.5	±1.2
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.3
USLS, beampeak to 20° above beampeak, dB	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	26	25
CPR at Boresight, dB	21	19	16
CPR at Sector, dB	14	13	13

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,194.0 N @ 150 km/h (268.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 449.0 N @ 150 km/h (100.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,227.0 N @ 150 km/h (275.8 lbf @ 150 km/h)

 Wind Speed, maximum
 250 km/h (155 mph)

Packaging and Weights

 Width, packed
 428 mm | 16.85 in

 Depth, packed
 326 mm | 12.835 in

 Length, packed
 2728 mm | 107.402 in

 Weight, gross
 46 kg | 101.413 lb

Regulatory Compliance/Certifications

Agency	Classification
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/Exempted



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.

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* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

