

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

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

2P-2L-C1 2-port sector antenna, 2x 694-960 MHz, 65° HPBW, 1x RET

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 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 | Port 2

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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
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 2533 mm | 99.724 in

Net Weight, without mounting kit 27 kg | 59.525 lb

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 400 W @ 50 °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	18	18	18
Null Fill, dB	-22	-22	-22
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

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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	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	25	24	24
CPR at Boresight, dB	14	16	16
CPR at Sector, dB	12	11	10

Mechanical Specifications

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	436 mm 17.165 in
Depth, packed	320 mm 12.598 in
Length, packed	2720 mm 107.087 in
Weight, gross	50 kg 110.231 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
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