

2UPX210B-T2



4-port multibeam antenna, 4x 694–896 MHz, 2x 37° HPBW, 2x RET with manual override.

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on both beams
- Each port has an integrated bias tee, and each beam has its own smart switch that automatically selects between bias tee or AISG inputs according to a predetermined priority table
- Single panel design supporting two separate beams perfectly optimized at horizontal pointing angles of +27 degrees and –27 degrees from boresight

General Specifications

Antenna Type	Multibeam
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	Copper Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information, General

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 2 male

Dimensions

Width	640 mm 25.197 in
Length	2533 mm 99.724 in
Depth	235 mm 9.252 in

Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	694 – 896 MHz
Polarization	±45°
Total Input Power, maximum	700 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Single RET)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 2 Port 3 Port 4
Internal RET	Low band (2)

Electrical Specifications

Frequency Band, MHz	694–806	806–896
Gain, dBi	17.9	18.7
Beam Centers, Horizontal, degrees	±27	±27
Beamwidth, Horizontal, degrees	39	36
Beamwidth, Vertical, degrees	9.6	8.4
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	21	21
Front-to-Back Ratio at 180°, dB	34	40
Isolation, Cross Polarization, dB	25	25
Isolation, Inter-band, dB	18	18
VSWR Return loss, dB	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694–806	806–896
Gain by all Beam Tilts, average, dBi	17.6	18.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.3
Gain by Beam Tilt, average, dBi	0° 17.6 5° 17.6 10° 17.6	0° 18.5 5° 18.5 10° 18.4
Beamwidth, Horizontal Tolerance, degrees	±1.8	±1.6

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Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4
USLS, beampeak to 20° above beampeak, dB	21	19
Front-to-Back Total Power at 180° ± 30°, dB	25	29
CPR at Boresight, dB	20	19

Mechanical Specifications

Wind Loading at Velocity, frontal	1,102.0 N @ 150 km/h 247.7 lbf @ 150 km/h
Wind Loading at Velocity, lateral	372.0 N @ 150 km/h 83.6 lbf @ 150 km/h
Wind Loading at Velocity, maximum	1,497.0 N @ 150 km/h 336.5 lbf @ 150 km/h
Wind Loading at Velocity, rear	1,135.0 N @ 150 km/h 255.2 lbf @ 150 km/h
Wind Speed, maximum	200 km/h 124.274 mph

Packaging and Weights

Width, packed	797 mm 31.378 in
Depth, packed	402 mm 15.827 in
Length, packed	2684 mm 105.669 in
Net Weight, without mounting kit	47 kg 103.617 lb
Weight, gross	67 kg 147.71 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 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance