

2CPX208R-V3

4-port multibeam antenna, 4x 790–960 MHz, 2x 38° HPBW, 2x RET with manual override.



- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- 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
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Polyester fiberglass pultrusion
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	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 1 male

Dimensions

Width	504 mm 19.843 in
Length	2090 mm 82.284 in
Depth	118 mm 4.646 in

Electrical Specifications

Impedance	50 ohm
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2CPX208R-V3

Operating Frequency Band	790 – 960 MHz
Polarization	±45°

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 RET	Low band (2)

Electrical Specifications

Frequency Band, MHz	790–890	890–960
Gain, dBi	18.1	18.6
Beam Centers, Horizontal, degrees	±27	±27
Beamwidth, Horizontal, degrees	40	35
Beamwidth, Vertical, degrees	10	9.1
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	18	18
Null Fill, dB	-22	-22
Front-to-Back Ratio at 180°, dB	32	31
Isolation, Same Beam, dB	25	25
VSWR Return loss, dB	1.29 18.0	1.29 18.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	790–890	890–960
Gain by all Beam Tilts, average, dBi	17.8	18.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3
Gain by Beam Tilt, average, dBi	0° 17.9 5° 17.9 10° 17.8	0° 18.4 5° 18.4 10° 18.1
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.2
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	21	22
Front-to-Back Total Power at 180° ± 30°, dB	23	20
CPR at Boresight, dB	23	21

2CPX208R-V3

CPR at Sector, dB 12 7

Mechanical Specifications

Wind Loading at Velocity, frontal 1,352.0 N @ 150 km/h | 303.9 lbf @ 150 km/h
Wind Loading at Velocity, lateral 228.0 N @ 150 km/h | 51.3 lbf @ 150 km/h
Wind Speed, maximum 200 km/h | 124.274 mph

Packaging and Weights

Width, packed 593 mm | 23.346 in
Depth, packed 209 mm | 8.228 in
Length, packed 2229 mm | 87.756 in
Net Weight, without mounting kit 32.5 kg | 71.65 lb
Weight, gross 45.5 kg | 100.31 lb

Regulatory Compliance/Certifications

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



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