

# 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

<b>Antenna Type</b>	Multibeam
<b>Band</b>	Single band
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Polyester fiberglass pultrusion
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information, General

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male

## Dimensions

<b>Width</b>	504 mm   19.843 in
<b>Length</b>	2090 mm   82.284 in
<b>Depth</b>	118 mm   4.646 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
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<b>Operating Frequency Band</b>	790 – 960 MHz
<b>Polarization</b>	±45°

## Remote Electrical Tilt (RET) Information, Electrical

<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (2)

## Electrical Specifications

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

## Electrical Specifications, BASTA

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

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<b>CPR at Boresight, dB</b>	23	21
<b>CPR at Sector, dB</b>	12	7

## Mechanical Specifications

<b>Wind Loading at Velocity, frontal</b>	1,352.0 N @ 150 km/h   303.9 lbf @ 150 km/h
<b>Wind Loading at Velocity, lateral</b>	228.0 N @ 150 km/h   51.3 lbf @ 150 km/h
<b>Wind Loading at Velocity, rear</b>	1,379.0 N @ 150 km/h   310.0 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	200 km/h   124.274 mph

## Packaging and Weights

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

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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