

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

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	10.0	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
Polarization	±45°	±45°
Impedance	50 ohm	50 ohm

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
CPR at Sector, dB	12	7

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

General Specifications

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Operating Frequency Band	790 – 960 MHz
Antenna Type	Multibeam
Band	Single band
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	4
RF Connector Quantity, low band	4
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Low loss circuit board
Radome Material	Polyester fiberglass pultrusion
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	1352.0 N @ 150 km/h 303.9 lbf @ 150 km/h
Wind Loading, lateral	228.0 N @ 150 km/h 51.3 lbf @ 150 km/h
Wind Speed, maximum	200 km/h 124 mph

Dimensions

Length	2090.0 mm 82.3 in
Width	504.0 mm 19.8 in
Depth	118.0 mm 4.6 in
Net Weight, without mounting kit	32.5 kg 71.7 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Packed Dimensions

Length	2229.0 mm 87.8 in
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Width	593.0 mm 23.3 in
Depth	209.0 mm 8.2 in
Shipping Weight	45.5 kg 100.3 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives



Included Products

T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance