

2UNPX203.6R2



8-port multibeam antenna, 4x 698–894 and 4x 1710–2170 MHz, 4x 37° HPBW, 4x RET

- 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	698–790	790–894	1710–1920	1920–2170
Gain, dBi	13.8	14.5	16.2	17.5
Beam Centers, Horizontal, degrees	±28	±28	±30	±30
Beamwidth, Horizontal, degrees	43	37	35	32
Beamwidth, Vertical, degrees	25.1	21.7	12.1	11.0
Beam Tilt, degrees	1–16	1–16	0–10	0–10
USLS (First Lobe), dB	15	15	15	15
Front-to-Back Ratio at 180°, dB	20	20	30	30
Isolation, Cross Polarization, dB	22	22	20	20
VSWR Return Loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	1.43 15.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150
Input Power per Port, maximum, watts	500	500	300	300
Polarization	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698–790	790–894	1710–1920	1920–2170
Gain by all Beam Tilts, average, dBi	13.7	14.3	15.7	16.0
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.9	±0.6	±0.5
Gain by Beam Tilt, average, dBi	1° 13.7 8° 13.8 16° 13.5	1° 14.6 8° 14.4 16° 13.7	0° 15.7 5° 15.7 10° 15.6	0° 16.0 5° 16.0 10° 15.8
Beamwidth, Horizontal Tolerance, degrees	±2	±3.6	±2.5	±3.1
Beamwidth, Vertical Tolerance, degrees	±1.7	±1.6	±0.7	±0.9
USLS, beampeak to 20° above beampeak, dB	18	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	21	17	31	31

* 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

Operating Frequency Band	1710 – 2170 MHz 698 – 894 MHz
Antenna Type	Multibeam
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	8
RF Connector Quantity, low band	4
RF Connector Quantity, high 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	Aluminum Low loss circuit board
Radome Material	Polyester fiberglass pultrusion
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	1,258.0 N @ 150 km/h 282.8 lbf @ 150 km/h
Wind Loading, lateral	194.0 N @ 150 km/h 43.6 lbf @ 150 km/h
Wind Speed, maximum	250 km/h 155 mph

Dimensions

Length	1746.0 mm 68.7 in
Width	565.0 mm 22.2 in
Depth	127.0 mm 5.0 in
Net Weight, without mounting kit	37.0 kg 81.6 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (2) 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 Male
RET Interface, quantity	2 male

Packed Dimensions

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Length	1940.0 mm 76.4 in
Width	625.0 mm 24.6 in
Depth	270.0 mm 10.6 in
Shipping Weight	43.0 kg 94.8 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" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance