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

This product will be discontinued on: March 31, 2021

General Specifications

Antenna Type	Multibeam
Band	Multiband
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	Aluminum | Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information, General

RET Interface	8-pin DIN Male
RET Interface, quantity	2 male

Dimensions

Width	565 mm | 22.244 in
Length	1746 mm | 68.74 in

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Depth	127 mm | 5 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2170 MHz | 698 – 894 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	High band (2) | Low band (2)

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	42.6	36.8	35.1	31.9
Beamwidth, Vertical, degrees	25.1	21.7	12.1	11
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

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
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,	±2	±3.6	±2.5	±3.1

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degrees				
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

Mechanical Specifications

Wind Loading at Velocity, frontal	1,258.0 N @ 150 km/h | 282.8 lbf @ 150 km/h
Wind Loading at Velocity, lateral	194.0 N @ 150 km/h | 43.6 lbf @ 150 km/h
Wind Loading at Velocity, rear	1,283.0 N @ 150 km/h | 288.4 lbf @ 150 km/h
Wind Speed, maximum	250 km/h | 155.343 mph

Packaging and Weights

Width, packed	625 mm | 24.606 in
Depth, packed	270 mm | 10.63 in
Length, packed	1940 mm | 76.378 in
Net Weight, without mounting kit	37 kg | 81.571 lb
Weight, gross	43 kg | 94.799 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

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

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