

CMAX-LHM2-30-153



Low PIM Directional High Capacity Venue 2x2 MIMO Antenna 4G/5G/C-Band, 617–960 MHz, 1695–2700 MHz and 3300–4200MHz, 4.3-10

Product Classification

Product Type Over-the-head stadium antenna

General Specifications

Application Indoor/Outdoor
Antenna Type Directional
Antenna Array Characteristic MIMO 2x2
Polarization $\pm 45^\circ$
Color Light Gray (RAL 7035)
Number of Ports 2
Radome Material PVC, UV resistant
RF Connector Interface 4.3-10 Female

Dimensions

Height 140 mm | 5.512 in
Width 417 mm | 16.417 in
Length 700 mm | 27.559 in

Electrical Specifications

Impedance 50 ohm
Lightning Protection dc Ground
Operating Frequency Band 1695 – 2700 MHz | 3300 – 4200 MHz | 617 – 698 MHz | 698 – 960 MHz

Electrical Specifications

Frequency Band, MHz	617–698	698–960	1695–2700	3300–4200
Gain, dBi	10.1	11.1	10.7	10.1
Beamwidth, Horizontal, degrees	38	29	31	30
Beamwidth, Vertical, degrees	70	70	73	71

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Horizontal Sidelobe, dB	14	14	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	20	15
CPR at Boresight, dB	16	18	16	18
Isolation, Cross Polarization, dB	20	20	20	20
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port, maximum, watts	200	200	200	200

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
617–800 MHz	1.725	11.5	1.499	14
800–960 MHz	1.725	11.5	1.499	14
1695–2200 MHz	1.725	11.5	1.499	14
2200–2700 MHz	1.725	11.5	1.499	14
3300–4200 MHz	1.703	11.7	1.499	14

Mechanical Specifications

Wind Loading @ Velocity, maximum	947.0 N @ 241 km/h (212.9 lbf @ 150 mph)
Wind Speed, maximum	241.4 km/h (150 mph)

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 100%
Ingress Protection Test Method	IEC 60529:2001, IP65
Vibration Test Method	ASTM D4169 IEC 60068-2-6

Packaging and Weights

Height, packed	235 mm 9.252 in
Width, packed	480 mm 18.898 in
Length, packed	940 mm 37.008 in
Included	Mounting bracket
Net Weight, with mounting kit	10.4 kg 22.928 lb
Packaging quantity	1
Weight, gross	13.8 kg 30.424 lb

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Weight, net

7.6 kg | 16.755 lb

