

# CMAX-LHM2-22-153



Low PIM Directional High Capacity Venue MIMO Antenna 4G/5G/C-Band, 617–960 MHz, 1695–2700 MHz and 3300–4200 MHz, 22-Deg

## Product Classification

**Product Type** Over-the-head stadium antenna

## General Specifications

**Application** Indoor/Outdoor

**Antenna Type** Directional

**Antenna Array Characteristic** MIMO 2x2

**Polarization** ±45°

**Color** White (RAL 9016)

**Number of Ports** 2

**Radome Material** PVC, UV resistant

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Width** 417 mm | 16.417 in

**Depth** 140 mm | 5.512 in

**Length** 1150 mm | 45.276 in

## Electrical Specifications

**Impedance** 50 ohm

**Lightning Protection** dc Ground

**Operating Frequency Band** 1695 – 2200 MHz | 2200 – 2700 MHz | 3300 – 4200 MHz | 617 – 806 MHz | 806 – 960 MHz

**Electrical Note** Values typical, unless otherwise stated

## Electrical Specifications

Frequency Band, MHz	617–806	806–960	1695–2200	2200–2700	3300–4200
Gain, dBi	11.8	12.5	10.8	11.7	11.2

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Beamwidth, Horizontal, degrees	24	19	27	21	24
Beamwidth, Vertical, degrees	76	73	75	67	74
Horizontal Sidelobe, dB	14	14	15	15	15
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	20	20	20	20	20
CPR at Boresight, dB	19	20	16	17	18
Isolation, Cross Polarization, dB	22	25	25	25	25
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	200	200	200	200	200

## VSWR/Return Loss

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

## Mechanical Specifications

Wind Loading @ Velocity, maximum	1,557.0 N @ 241 km/h (350.0 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

Width, packed	480 mm   18.898 in
Depth, packed	240 mm   9.449 in
Length, packed	1300 mm   51.181 in
Included	Mounting bracket

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Net Weight, with mounting kit	13.8 kg   30.424 lb
Packaging quantity	1
Weight, gross	17.5 kg   38.581 lb
Weight, net	11 kg   24.251 lb