

# CMAX-LHM2-60-153



Low PIM Directional High Capacity Venue MIMO Antenna 4G/5G/C-Band, 617–960 MHz 1695–2700 MHz and 3300–4200MHz 60-Deg, 4.3-10, (2 PORTS 617-4200MHz)

## 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** 116 mm | 4.567 in  
**Width** 330 mm | 12.992 in  
**Length** 450 mm | 17.717 in

## Electrical Specifications

**Impedance** 50 ohm  
**Lightning Protection** dc Ground  
**Operating Frequency Band** 1695 – 2700 MHz | 3300 – 4200 MHz | 617 – 960 MHz  
**Electrical Note** All values typical, unless otherwise stated

## Electrical Specifications

Frequency Band, MHz	617–960	1695–2700	3300–4200
Gain, dBi	8	7.3	7.8
Beamwidth, Horizontal, degrees	71	74	65

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<b>Beamwidth, Vertical, degrees</b>	66	78	62
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	18	17	16
<b>CPR at Boresight, dB</b>	12	12	12
<b>Isolation, Cross Polarization, dB</b>	20	20	20
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	200	200	200

## VSWR/Return Loss

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

## Mechanical Specifications

<b>Wind Loading @ Velocity, maximum</b>	473.0 N @ 241 km/h (106.3 lbf @ 150 mph)
<b>Wind Speed, maximum</b>	241.4 km/h (150 mph)

## Environmental Specifications

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

## Packaging and Weights

<b>Height, packed</b>	225 mm   8.858 in
<b>Width, packed</b>	350 mm   13.78 in
<b>Length, packed</b>	690 mm   27.165 in
<b>Included</b>	Mounting bracket
<b>Net Weight, with mounting kit</b>	8 kg   17.637 lb
<b>Packaging quantity</b>	1
<b>Weight, gross</b>	8.2 kg   18.078 lb
<b>Weight, net</b>	4.2 kg   9.259 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

