

# CMAX-LHM2-3030-153



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** White (RAL 9016)  
**Number of Ports** 2  
**Radome Material** Fiberglass, UV resistant  
**RF Connector Interface** 4.3-10 Female

## Dimensions

**Width** 750 mm | 29.528 in  
**Depth** 120 mm | 4.724 in  
**Length** 750 mm | 29.528 in

## Electrical Specifications

**Impedance** 50 ohm  
**Lightning Protection** dc Ground  
**Operating Frequency Band** 1710 – 2200 MHz | 2200 – 2700 MHz | 3300 – 4200 MHz | 617 – 698 MHz | 698 – 960 MHz  
**Electrical Note** Values typical, unless otherwise stated

## Electrical Specifications

Frequency Band, MHz	617–698	698–960	1695–2200	2200–2700	3300–4200
Gain, dBi	12	13.5	12.5	14	14.5

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<b>Beamwidth, Horizontal, degrees</b>	41	34	40	32	27
<b>Beamwidth, Vertical, degrees</b>	44	35	37	30	28
<b>Horizontal Sidelobe, dB</b>	18	18	18	18	18
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	25	25	30	30	25
<b>Isolation, Cross Polarization, dB</b>	25	25	22	22	20
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	200	200	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>617–698 MHz</b>	1.725	11.5	1.499	14
<b>698–960 MHz</b>	1.725	11.5	1.499	14
<b>1695–2200 MHz</b>	1.725	11.5	1.499	14
<b>2200–2700 MHz</b>	1.703	11.7	1.499	14
<b>3300–4200 MHz</b>	1.725	11.5	1.499	14

## Mechanical Specifications

<b>Wind Loading @ Velocity, maximum</b>	1,826.0 N @ 241 km/h (410.5 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>Width, packed</b>	805 mm   31.693 in
<b>Depth, packed</b>	218 mm   8.583 in
<b>Length, packed</b>	1012 mm   39.843 in
<b>Included</b>	Mounting bracket
<b>Net Weight, with mounting kit</b>	15.8 kg   34.833 lb

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<b>Packaging quantity</b>	1
<b>Weight, gross</b>	19.8 kg   43.651 lb
<b>Weight, net</b>	13 kg   28.66 lb

## Regulatory Compliance/Certifications

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

