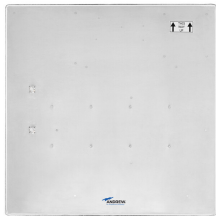


# CMAX-LHM2-3030-I53



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** ±45°  
**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

# CMAx-LHM2-3030-I53

Beamwidth, Horizontal, degrees	41	34	40	32	27
Beamwidth, Vertical, degrees	44	35	37	30	28
Horizontal Sidelobe, dB	18	18	18	18	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	25	25	30	30	25
Isolation, Cross Polarization, dB	25	25	22	22	20
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)
617–698 MHz	1.725	11.5	1.499	14
698–960 MHz	1.725	11.5	1.499	14
1695–2200 MHz	1.725	11.5	1.499	14
2200–2700 MHz	1.703	11.7	1.499	14
3300–4200 MHz	1.725	11.5	1.499	14

## Mechanical Specifications

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

# CMAX-LHM2-3030-I53

Packaging quantity	1
Weight, gross	19.8 kg   43.651 lb
Weight, net	13 kg   28.66 lb

## Regulatory Compliance/Certifications

Agency	Classification
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

