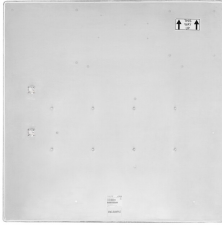


CMAX-LHM2-3030-I53



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 $\pm 45^\circ$
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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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

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