

CMAX-HM4-3030-I53



Cell-Max™ Low PIM Directional High Capacity Venue 4x4 MIMO Antenna, 1695–2700, 3300–4200 MHz

Product Classification

Product Type	Over-the-head stadium antenna
Product Brand	Cell-Max™

General Specifications

Application	Indoor/Outdoor
Antenna Type	Directional
Antenna Array Characteristic	MIMO 4x4
Polarization	±45°
Color	Light Gray (RAL 7035)
Number of Ports	4
Radome Material	PVC, UV resistant
RF Connector Interface	4.3-10 Female

Dimensions

Height	126 mm 4.961 in
Width	417 mm 16.417 in
Length	594 mm 23.386 in

Electrical Specifications

Impedance	50 ohm
Lightning Protection	dc Ground
Operating Frequency Band	1695 – 2700 MHz 3300 – 4200 MHz
Electrical Note	Values typical, unless otherwise stated

Electrical Specifications

Frequency Band, MHz	1695–2200	2200–2700	3300–3800	3800–4200
Gain, dBi	14.3	15.6	14.1	13.8

CMAx-HM4-3030-153

Beamwidth, Horizontal, degrees	35	29	31	28
Beamwidth, Vertical, degrees	31	23	26	26
Horizontal Sidelobe, dB	13	14	12	12
Front-to-Back Ratio at 180°, dB	25	25	25	25
Isolation, Cross Polarization, dB	15	15	15	15
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port, maximum, watts	100	100	100	100

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
1695–2200 MHz	1.798	10.9	1.603	12.7
2200–2700 MHz	1.798	10.9	1.603	12.7
3300–3800 MHz	1.798	10.9	1.603	12.7
3800–4200 MHz	1.798	10.9	1.603	12.7

Mechanical Specifications

Wind Loading @ Velocity, maximum	682.0 N @ 241 km/h (153.3 lbf @ 150 mph)
Wind Speed, maximum	241 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

Height, packed	275 mm 10.827 in
Width, packed	500 mm 19.685 in
Length, packed	790 mm 31.102 in
Included	Mounting bracket
Packaging quantity	1
Weight, gross	12.5 kg 27.558 lb
Weight, net	8 kg 17.637 lb