

# CMAX-DMH3030-43V53

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

## Product Classification

<b>Product Type</b>	Over-the-head stadium antenna
<b>Product Brand</b>	Cell-Max™

## General Specifications

<b>Application</b>	Indoor/Outdoor
<b>Antenna Type</b>	Directional
<b>Antenna Array Characteristic</b>	MIMO 4x4
<b>Polarization</b>	±45°
<b>Color</b>	Gray
<b>Number of Ports</b>	4
<b>Radome Material</b>	PVC
<b>RF Connector Interface</b>	4.3-10 Female

## Dimensions

<b>Width</b>	328 mm   12.913 in
<b>Length</b>	650 mm   25.591 in
<b>Depth</b>	112 mm   4.409 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Lightning Protection</b>	dc Ground
<b>Operating Frequency Band</b>	1695 – 2700 MHz

## Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2180	2200–2700
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<b>Gain, dBi</b>	13.6	14.6	14.8	15.6
<b>Beamwidth, Horizontal, degrees</b>	37	34	32	27
<b>Beamwidth, Vertical, degrees</b>	36	33	31	27
<b>Horizontal Sidelobe, dB</b>	20	20	22	22
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	22	22	22	22
<b>Isolation, Cross Polarization, dB</b>	30	30	30	30
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	100	100	100	100

## Mechanical Specifications

<b>Wind Loading at Velocity, maximum</b>	2,127.0 N @ 216 km/h   478.2 lbf @ 216 km/h
<b>Wind Speed, maximum</b>	216 km/h   134.216 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>	210 mm   8.268 in
<b>Width, packed</b>	375 mm   14.764 in
<b>Length, packed</b>	890 mm   35.039 in
<b>Included</b>	Mounting bracket
<b>Packaging quantity</b>	1
<b>Weight, gross</b>	10 kg   22.046 lb
<b>Weight, net</b>	5.5 kg   12.125 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.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

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