

# CMAX-DM22S-43-V53

Low PIM Directional High Capacity Venue MIMO Antenna, 698–960 MHz and 1710–2700 MHz, 22-Deg



## General Specifications

<b>Antenna Type</b>	Directional
<b>Application</b>	Indoor   Outdoor
<b>Color</b>	White
<b>Number of Ports, all types</b>	2
<b>RF Connector Interface</b>	4.3-10 Female

## Dimensions

<b>Width</b>	360 mm   14.173 in
<b>Length</b>	900 mm   35.433 in
<b>Depth</b>	120 mm   4.724 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Lightning Protection</b>	dc Ground
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	698–800	800–960	1695–1880	1850–1990	1920–2180	2200–2700	2300–2360
<b>Gain, dBi</b>	11.8	12.5	11.6	12	12.4	13.6	13.4
<b>Beamwidth, Horizontal, degrees</b>	26	22	27	25	24	20	21
<b>Beamwidth, Vertical, degrees</b>	67	64	67	64	61	56	59
<b>Horizontal Sidelobe, dB</b>	17	19	18	19	18	17	19
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	27	27	33	33	33	33	35
<b>CPR at Boresight, dB</b>	20	20	17	17	18	18	18

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<b>Isolation, Cross Polarization, dB</b>	27	27	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	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	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	200	200	200	200	200	200	200

## Material Specifications

**Radome Material**                              Fiberglass, UV resistant

## Mechanical Specifications

**Wind Loading at Velocity, maximum**      2,127.0 N @ 216 km/h | 478.2 lbf @ 216 km/h

**Wind Speed, maximum**                         216 km/h | 134.216 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**                                    420 mm | 16.535 in

**Depth, packed**                                   220 mm | 8.661 in

**Length, packed**                                  1160 mm | 45.669 in

**Included**    Mounting bracket

**Net Weight, with mounting kit**               10.3 kg | 22.708 lb

**Packaging quantity**                             1

**Weight, gross**                                   13 kg | 28.66 lb

**Weight, net**                                      7.3 kg | 16.094 lb