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## CMAX-DM20-CPUSEi53

Cell-Max™ Directional High Capacity Venue MIMO Antenna, 698–960 MHz and 1710–2700 MHz, 20°, 12 dBi

The Cell-Max™ DM20 provides consistent dual-polarized, narrow beamwidth over ultra wide frequency range needed for delivering high capacity required in stadiums, sports arenas, and other capacity hot spots.

The directional antenna is equipped with a user friendly click technology mounting bracket allowing flexible orientation and simple adjustment.

CommScope antennas ensure optimum capacity, minimum sector overlap, and ease of installation for any solution. The innovative mounting bracket provides an audio click for each 2.5 degree horizontal and 5 degree vertical adjustments allowing easy installation without the need for visual adjustment.

- Wideband to support future technologies
- Dual-polarized ( $\pm 45^\circ$ ) supporting MIMO installations
- Excellent PIM performance
- Flexible coverage adjustment through smart mounting bracket
- Compact size
- Laser tool mount

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Low PIM Directional High Capacity Venue MIMO Antenna, 698–960 MHz and 1710–2700 MHz, 20-Deg, 12 dBi

### Electrical Specifications

Frequency Band, MHz	698–800	800–960	1695–1880	1850–1990	1920–2180	2200–2700	2300–2360
Gain, dBi	12.0	13.4	12.3	12.6	13.2	13.5	13.5
Beamwidth, Horizontal, degrees	26	23	24	22	20	18	19
Beamwidth, Vertical, degrees	63.0	61.0	64.0	61.0	62.0	60.0	65.0
Horizontal Sidelobe, dB	18	18	17	17	17	17	17
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	25	29	35	35	35	30	35
CPR at Boresight, dB	20	20	15	15	15	15	15
Isolation, dB	23	23	23	23	23	23	23
VSWR   Return Loss, dB	1.7   11.7	1.7   11.7	1.8   10.9	1.8   10.9	1.8   10.9	1.8   10.9	1.8   10.9
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	200	200	200	200	200	200	200
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

### General Specifications

Antenna Type	Directional
Application	Indoor   Outdoor
Brand	Andrew®
Includes	Mounting bracket
Number of Ports, all types	2
Package Quantity	1

### Mechanical Specifications

Color	White
Radome Material	ABS, UV resistant
RF Connector Interface	7-16 DIN Female
Wind Loading, maximum	686.0 N @ 216 km/h 154.2 lbf @ 216 km/h
Wind Speed, maximum	216 km/h   134 mph

### Environmental Specifications

Ingress Protection Test Method	IEC 60529:2001, IP65
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 100%
Vibration Test Method	ASTM D4169   IEC 60068-2-6

### Dimensions

Depth	127.0 mm   5.0 in
Length	881.4 mm   34.7 in
Width	340.4 mm   13.4 in
Net Weight	8.0 kg   17.6 lb

### Packed Dimensions

Depth	210.0 mm   8.3 in
Length	1125.0 mm   44.3 in
Width	350.0 mm   13.8 in
Shipping Weight	14.2 kg   31.3 lb

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## Outline Drawing

