Product Specifications







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 (±45°) supporting MIMO installations
- Excellent PIM performance
- Flexible coverage adjustment through smart mounting bracket
- Compact size
- Laser tool mount

Product Specifications









CMAX-DM20-CPUSEi53

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						

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 $-40 \, ^{\circ}\text{C} \text{ to } +60 \, ^{\circ}\text{C} \text{ (}-40 \, ^{\circ}\text{F to } +140 \, ^{\circ}\text{F)}$

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

Product Specifications



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Outline Drawing

