

CMAX-DM22-CPUSEV53

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

OBSOLETE

This product was discontinued on: January 31, 2018

Replaced By:

CMAX-DM22S-D-V53 Low PIM Directional High Capacity Venue MIMO Antenna, 698–960 MHz and 1710–2700 MHz, 22-Deg

Product Classification

Product Type	Indoor/outdoor antenna
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General Specifications

Application	Indoor/Outdoor
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Antenna Type	Directional
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Polarization $\pm 45^\circ$

Color White

Number of Ports 2

Radome Material	Fiberglass, UV resistant
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RF Connector Interface 7-16 DIN Female

Dimensions

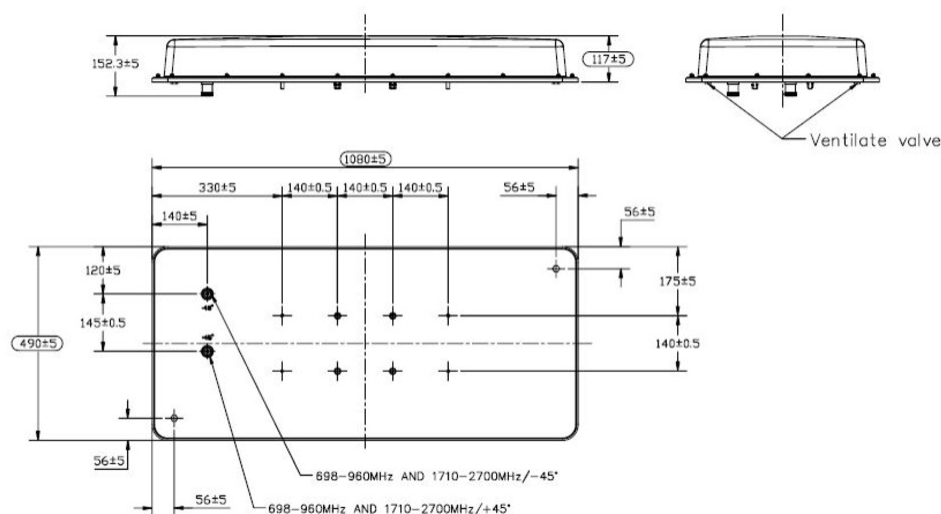
Width 490 mm | 19.291 in

Depth 152 mm | 5.984 in

Length 1080 mm | 42.52 in

CMAX-DM22-CPUSEV53

Outline Drawing



Electrical Specifications

Impedance	50 ohm
Lightning Protection	dc Ground

Electrical Specifications

Frequency Band, MHz	698-800	800-960	1695-1880	1850-1990	1920-2180	2200-2700	2300-2360
Gain, dBi	12.8	13.3	12.1	12.6	13	14	13.8
Beamwidth, Horizontal, degrees	25	22	27	25	23	19	19
Beamwidth, Vertical, degrees	68	71	68	67	68	61	62
Horizontal Sidelobe, dB	20	20	18	20	20	18	25
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	30	28	30	32	32	30	30
CPR at Boresight, dB	22	22	14	16	14	16	20
Isolation, Cross Polarization, dB	25	25	24	24	24	24	24
VSWR Return loss, dB	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
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

Mechanical Specifications

CMAX-DM22-CPUSEV53

Wind Loading @ 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	570 mm 22.441 in
Depth, packed	220 mm 8.661 in
Length, packed	1410 mm 55.512 in
Included	Mounting bracket
Net Weight, with mounting kit	20 kg 44.092 lb
Packaging quantity	1
Weight, gross	25 kg 55.115 lb
Weight, net	14 kg 30.865 lb