CMAX-HM4-60X1-I53

Low PIM Directional High Capacity Venue Under the Seat 4x4 MIMO Antenna, 1695–2700, 3400-4200 MHz

Product Classification

Product Type	Under-the-seat stadium antenna

General Specifications

Application	Outdoor
Antenna Type	Directional
Antenna Array Characteristic	MIMO 4x4
Polarization	±45°
Color	Light Gray (RAL 7035)
Number of Ports	4
Pigtail Cable	670-141SXE, plenum rated
Radome Material	ASA+PC, UV stabilized
RF Connector Interface	4.3-10 Female

Dimensions

Width	175 mm | 6.89 in
Depth	86 mm | 3.386 in
Length	345 mm | 13.583 in
Pigtail Length	500 mm | 19.685 in

Electrical Specifications

Impedance	50 ohm
Lightning Protection	dc Ground
Operating Frequency Band	1695 – 2700 MHz | 3400 – 4200 MHz
Electrical Note	Values typical, unless otherwise stated

Electrical Specifications

Frequency Band, MHz	**1695–2200**	**2200–2700**	**3400–3800**	**3800–4200**
Gain, dBi	7.8	7.7	7.2	7.2
Beamwidth, Horizontal, degrees	69	60	62	72

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Beamwidth, Vertical, degrees	67	68	65	65
Front-to-Back Ratio at 180°, dB	20	20	17	17
Isolation, Cross Polarization, dB	16	15	15	15
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port, maximum, watts	100	100	100	100

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
1695–2200 MHz	1.798	10.9	1.499	14
2200–2700 MHz	1.798	10.9	1.499	14
3400–3800 MHz	1.798	10.9	1.499	14
3800–4200 MHz	1.798	10.9	1.499	14

Mechanical Specifications

Wind Loading @ Velocity, maximum	185.0 N @ 241 km/h (41.6 lbf @ 150 mph)
Wind Speed, maximum	241 km/h (150 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

Height, packed	195 mm | 7.677 in
Width, packed	250 mm | 9.843 in
Length, packed	485 mm | 19.094 in
Included	Mounting bracket
Packaging quantity	1
Weight, gross	3.2 kg | 7.055 lb
Weight, net	2.5 kg | 5.512 lb