

MPE CALCULATION
FCC ID: DD4MXCW640

RF Exposure Requirements: 47 CFR §1.1307(b)

RF Radiation Exposure Limits: 47 CFR §1.1310

RF Radiation Exposure Guidelines: FCC OST/OET Bulletin Number 65

EUT Frequency Band: 2.4GHz 2412-2462 MHz
EUT Frequency Band: 5 GHz 5180- 5320MHz, 5500-5700MHz, 5745-5825MHz

Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz

Power Density Limit: 1 mW / cm²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

EUT: MXCW Wireless Discussion System, Model No.: MXCW640

(2.4GHz Band): Power = 10.35 dBm, Antenna Gain = 4.35 dBi, Power density = 0.007mW/ cm²

(5 GHz Band): Power = 13.09 dBm, Antenna Gain = 6 dBi, Power density = 0.038 mW/ cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Directional Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
2.4 GHz WLAN	2412	10.35	4.35	4.35	±1dB	11.35	20	0.007	1	Pass
5 GHz WLAN	5240	15.80	6	6	±1dB	16.80	20	0.038	1	Pass

Note: 2.4GHz and 5GHz do not transmit simultaneously.

The Above Result had shown that the Device complied with MPE requirement.

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