



MPE/RF EXPOSURE REPORT

FCC CFR 47 Part 1.1310

Report No.: DIGI134-U14 Rev A

Company: Digi International Inc.

Model: CCMP25

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To: FCC CFR 47 Part 1.1310

Report No.: DIGI134-U14 Rev A

This report supersedes: NONE

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1. MAXIMUM PERMISSIBLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/(4*π*d²)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = 10 ^ (G (dBi)/10)

Assessment for simultaneous operation o

The client declared the following configuration to be worst case for assessment of simultaneous transmission.

Calculations for separation distance of 20 cm

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Conducted Output Power (dBm)	Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	RATIO Power Density / Limit
2400.0 – 2483.5 BLE	3.0	2.00	30.0	1000.00	0.397	1.00	12.60	0.397
2400.0 – 2483.5 802.11	3.0	2.00	30.0	1000.00	0.397	1.00	12.60	0.397
5150.0 – 5250.0	4.1	2.57	30.0	1000.00	0.511	1.00	14.30	0.511
5250.0 – 5350.0	4.1	2.57	24.0	251.19	0.128	1.00	7.17	0.128
5470.0 – 5725.0	4.1	2.57	24.0	251.19	0.128	1.00	7.17	0.128
5725.0 – 5850.0	4.1	2.57	30.0	1000.00	0.511	1.00	14.30	0.511
5925.0 – 6425.0	4.1	2.57	31.9	1548.82	0.792	1.00	17.80	0.792
6425.0 – 6525.0	4.1	2.57	25.9	389.05	0.199	1.00	8.92	0.199
6525.0 – 6875.0	4.1	2.57	31.9	1548.82	0.792	1.00	17.80	0.792
6875.0 – 7125.0	4.1	2.57	25.9	389.05	0.199	1.00	8.92	0.199

Assessment for simultaneous operation

The client declared the following configuration to be worst case for assessment of simultaneous transmission.

Calculation for separation distance of 20 cm

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Conducted Output Power (dBm)	Output Power (mW)	Power Density Limit (mW/cm ²)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Ratio E _i /E _{ref}
2400.0 – 2483.5 802.11	3.0	2.00	30.0	1000.00	1.00	0.397	0.397
5925.0 – 6425.0	4.1	2.57	31.9	1548.82	1.00	0.792	0.792
Summation of ratios							1.189
The Total Evaluation was calculated using the formula: $\sum_{i=1}^n E_i / E_{ref} \leq 1$ Where; E_i: calculated power density for transmitter. E_{ref}: power density related limit.							

Summary; Equipment does not meet the RF exposure requirements during simultaneous transmission for a minimum separation distance of 20 cm.

Calculation for greater separation distance of 22 cm.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Conducted Output Power (dBm)	Output Power (mW)	Power Density Limit (mW/cm ²)	Calculated Power Density (mW/cm ²) @ 22cm	Power Density Ratio E _i /E _{ref}
2400.0 – 2483.5 802.11	3.0	2.00	30.0	1000.00	1.00	0.322	0.328
5925.0 – 6425.0	4.1	2.57	31.9	1548.82	1.00	0.655	0.655
Summation of ratios							0.983
The Total Evaluation was calculated using the formula: $\sum_{i=1}^n E_i / E_{ref} \leq 1$ Where; E_i: calculated power density for transmitter. E_{ref}: power density related limit.							

CONCLUSION; From above assessment the minimum safe distance to meet the RF exposure limits during simultaneous transmission is **22 cm.**

Specification - Maximum Permissible Exposure Limits

The Limits are defined in Table 1 of FCC §1.1310.

The Limits for General Population/Uncontrolled Exposure apply.

Table 1 to [§ 1.1310\(e\)\(1\)](#)—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30



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