



MPE/RF EXPOSURE REPORT

FCC CFR 47 Part 1.1310

Report No; DIGI140-U7B Rev A

Company: Digi International Inc.

Model: XB3P9XR

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To: FCC CFR 47 Part 1.1310

Report Serial No.: DIGI140-U7B Rev A

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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

$$\text{Power Density} = P_d (\text{mW/cm}^2) = \text{EIRP} / (4 \cdot \pi \cdot d^2)$$

$$\text{EIRP} = P \cdot G$$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

$$\text{Numeric Gain} = 10^{(G (\text{dBi})/10)}$$

The calculations in the table below use the highest conducted power values together with the antenna gain specified for the EUT.

Freq. Band (MHz)	Transmit Frequency (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	Min Calculated safe distance for Limit (cm)
902.0 – 928.0	902.5	0.80	1.20	29.98	995.41	0.60	0.238	0.396	12.58
2400.0 - 2483.5	2402.0	2.10	1.62	6.12	4.09	1.00	0.001	0.001	0.73

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Assessment for simultaneous operation;-

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}
902.0 – 928.0	0.80	1.20	29.98	995.41	0.60	0.238	0.396
2400.0 - 2483.5	2.10	1.62	6.12	4.09	1.00	0.001	0.001
Summation of ratios							0.397

The Total Evaluation was calculated using the formula:

$$\sum_{i=1}^n E_i / E_{ref} \leq 1$$

Where

E_i: calculated E-field Strength for transmitter

E_{ref}: E-field strength related limit

Conclusion; Equipment meets the RF exposure requirements during simultaneous transmission at minimum separation distance of 20 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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