



RF EXPOSURE REPORT

REPORT NO.: SA950721H03A
MODEL NO.: CRADLE A01, XAC 100
FCC ID: MQT-CRADLE

ACCORDING: FCC Guidelines for Human Exposure
IEEE C95.1

APPLICANT: XAC AUTOMATION CORP.

ADDRESS: 4F, No. 30, INDUSTRY E. RD. IX,
SCIENCE-BASED INDUSTRIAL
PARK,HSINCHU,TAIWAN

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung
Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien,
Taiwan, R.O.C.



RF Exposure Measurement

1. Introduction

In this document, we try to prove the safety of radiation harmfulness to the human body for our product. The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed.

2. RF Exposure Limit

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
(A)Limits For Occupational / Control Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	...	...	f/300	6
1500-100,000	...	...	5	6
(B)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
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz



3. EUT Operating condition

The software provided by Manufacturer enabled the EUT to transmit and receive data at the operating channel.

4. Classification

This device is classified as **General Population/Uncontrolled Device.**

5. Output Power & RF Exposure value:

For USB mode:

Channel Frequency (MHz)	Electric field (dBuV/m)	Electric field (V/m)	Limit of Electric field (V/m)
13.56	87.1	0.0226	60.77

Note: Limit of Electric field=824/f

For RS232 mode:

Channel Frequency (MHz)	Electric field (dBuV/m)	Electric field (V/m)	Limit of Electric field (V/m)
13.56	86.8	0.0219	60.77

Note: Limit of Electric field=824/f