

Integrated Information Systems Group 8201 E. McDowell Road Scottsdale, AZ 85252-1417

Exhibit 11 – RF Exposure Information Motorola BiStatix BXR-610 Access Control Reader

FCC ID: E9UBXR610

Model No. BXR-610

11.0 RF Exposure Information

The BXR-610 Access Control Reader complies with human radiation emission requirements. These requirements are based on the Maximum Permissible Exposure (MPE) levels of ANSI/IEEE C95.1-1992 and 47 CFR 1.1310, Table 1 for an uncontrolled environment.

The access control reader is a low power device intended to be used in a fixed location. The access control reader can arguably fit the definition of a portable device as defined in 47 CFR 2.1093(b) (i.e. "designed to be used so that the radiating structure of the device is within 20 cm of the body of the user", specifically the hand). However, it does not fit any of the equipment classification criteria for portable devices requiring SAR testing as defined in 47 CFR 2.1093(c). All other portable transmitting devices "are categorically excluded from routine environmental evaluation for RF exposure prior to equipment authorization or use" per 2.1093(c) which includes the Access Control Reader.

RF Energy Exposure Assessment Record

Product or Equipment Name:	BiStatix BXR-610 Access Control	Reader	Date:	5 July 2000
Program/Project Contact Person:	Gilbert Roque		Phone: M/D:	(408) 383-4074 CA48
Location of Product/Equipment	Fixed locations			
1. RF Emittin	g Product or Equipment Description			
Manufacturer:	Indala Corporation (subsidiary of Moto	orola, Inc.)		
Model:	BXR-610	Serial Numbe	r: <u>DVT</u>	-84
not fit any c as defined excluded fr	s within 20 cm of the body of the user", if the equipment classification criteria for n 47 CFR 2.1093(c). All other portable om routine environmental evaluation for on or use" per 2.1093(c) which includes t eration (MHz): 125 kHz	portable devices r transmitting device RF exposure prior	requiring S es "are cat to equipm	AR testing egorically
Maximum Output	· · ·			
Modulation Charac	teristics: <u>N/A</u>			
If pulsed; Pulse duration: <u>N/A</u> Pulse repetition frequency (PRF): <u>N/A</u>				
Duty cycle:	100%			
Antenna description:	E-Field PCB Antenna Plate (4" x 5")			
Antenna gain:	N/A			
Failure Modes				
Are there credible fail	ure modes in the product or equipment (hard	lware, software) or o	operations (controls,

Are there credible failure modes in the product or equipment (hardware, software) or operations (controls, procedures, human error) that could cause the average output power to increase above the normal operating level?

Yes _____ No __X If Yes, describe the failure mode, probability of occurrence of the failure, and the expected level of output power.

Figure 11-1 RF Energy Exposure Assessment Record (1 of 3)

2. Maximum Permissible Exposure (MPE) Levels

	Frequency (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Plane Wave Equiv. Power Density (S) (mW/cm ²)	Specific Absorption Rate (SAR) (mW/g)
Controlled Environment	N/A	N/A	N/A	N/A	N/A
Uncontrolled Environment	0.125	614	130.4	N/A	N/A
Induced Current (mA)	Both Feet 9	<u>0 </u>	ach Foot <u>N/A</u>	Frequency	125 kHz
Contact Current (mA)	45	Frequency 125 k	Hz		

MPE Levels based on ANSI/IEEE C95.1-1992 and 47 CFR 1.1310, Table 1 requirements, unless otherwise specified.

3. **Measurement Results**

Applicable Document: Radio Frequency (RF) Energy Exposure Test Procedure, Rev E.

	Frequency (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Plane Wave Equiv. Power Density (S) (mW/cm ²)	Specific Absorption Rate (SAR) (mW/g)
Controlled Environment	N/A	N/A	N/A	N/A	N/A
Uncontrolled Environment	0.125	120	0.01	N/A	N/A
Induced Current (mA)	Both Feet 0	<u>.5</u> E	ach Foot <u>N/A</u>	Frequency	125 kHz
Contact Current (mA)	0.11	Frequency 125 k	(Hz		

Is the Maximum Permissible Exposure Level for an uncontrolled environment exceeded?

			If Yes, provide drawings to show the boundaries of the Restricted
Yes	No	Х	Access Area.

Is the Maximum Permissible Exposure Level for a controlled environment exceeded?

Yes _____ No __X If Yes, define and implement necessary controls.

Figure 11-2 RF Energy Exposure Assessment Record (2 of 3)

4. RF Energy Measurement Equipment

Manufacturer	Description	Model	Asset No.	Date of Last Cal.	Cal. Due Date
Narda	Probe, H-Field, 10MHz-300MHz	8731	G52449	06/22/00	06/30/01
Narda	Probe, E-Field, 300kHz-40GHz	8741	T57980	04/26/00	04/30/01
Narda	Electromagnetic Survey Meter	8718	G58802	04/06/00	04/30/01
Narda	Human Body Antenna	8858	N/A	N/A	N/A
Narda	Induced Current Meter	8850	G52446	02/02/00	02/28/01
Boonton	RMS Voltmeter	92EA	G52041	11/10/99	05/31/01

Measurements made by: <u>Steve Gooding</u> Date: <u>5 July 2000</u>	easurements made by:	ade by: Steve Gooding	Date:	5 July 2000
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5. Required Hazard Controls

Fully describe all hazard controls to be implemented. Provide drawings and other attachments, as necessary, to describe Restricted Access Areas.

None required for its present configuration and intended state of use.

6. Review & Approval

	Date:
Project Leader	
	Date:
Program / Product Manager	
	Date:
Division Product Safety Representative	
	Date:
Responsible Area Manager	
	Date:
SSS RF Engineer	
	Date:
Radiation Safety Officer	

Figure 11-3RF Energy Exposure Assessment Record (3 of 3)