FMIx User Manual



2010 August V1.0c

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International Standard Compliance



MEDICAL EQUIPMENT WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL 60601-1, IEC/EN 60601-1, CAN/CSA C22.2 No. 601.1

Authentication sign of Standard Ispe3ction Bureau for U.S.A. Complies with UL 60601-1 and CAN/CSA C22.2 NO. 601.1

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility" and 73/23/EEC "Low Voltage Directive".

FCC



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Safety Precautions

General Safety Precautions

Please ensure the following safety precautions are adhered to at all times.

- *Follow the electrostatic precautions* outlined below whenever the FMIx is opened.
- **Do not apply voltage levels that exceed the specified voltage range**. Doing so may cause fire and/or an electrical shock.
- *Electric shocks can occur* if the FMIx chassis is opened when the FMIx is running.
- Do not drop or insert any objects into the ventilation openings of the FMIx.
- If considerable amounts of dust, water, or fluids enter the FMIx, turn off the power supply immediately, unplug the power cord and battery pack, and contact the FMIx vendor.
- To prevent the risk of electric shock, make sure power cord is unplugged from wall socket. To fully disengage the power to the unit, please disconnect the power cord from the ac outlet.
- Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".
- The signal input parts or signal output parts (SIP/SOP) need to be connected properly and any unused SIP/SOP shall not be accessible to unqualified personnel after the LCD is integrated into a medical system.
- The unit is 60601-1 certified equipment outside the patient environment.
- Equipment connected to the analog or digital interfaces must comply with the respective IEC standards (e.g. IEC 60950 for data processing equipment and IEC 60601-1 for medical equipment).
- DO NOT:
 - Drop the FMIx against a hard surface.
 - Strike or exert excessive force onto the LCD panel.
 - Touch any of the LCD panels with a sharp object

- Expose to strong magnetic or electrical fields.
- Expose to dirty or dusty environments
- O Operate during a gas leak
- \circ $\,$ In a site where the ambient temperature exceeds the rated temperature
- Throw batteries in fires as they may explode, check local codes for special battery disposal instructions

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

AC ADAPTER

The AC Adapter has three components:



•AC power adapter •Power cord



CAUTION: Use the appropriate AC Adapter with your Web Tablet. This adapter should not be used to power any other electronic devices. If you do so, you may damage the accessory or other device.



Battery Notice

This device contains a lithium ion battery inside for real time clock, please follow the description as below for dispose of

In North America, dispose of nickel metal hydride or lithium ion batteries by taking advantage of the Web Tablet battery recycling program. This program provides you with a postage-paid battery pack mailer preaddressed to a reclamation facility where the metals are recycled. For more information, visit the recycling program Web site at https://www.orderz.com/recycle.

In Europe, do not dispose of batteries with general household waste. Dispose of or recycle them by using the public collection system.

This product is under the state that is not used for a long time, please pull out the battery in order to increase the life-span of battery.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Product Disposal

- Outside the European Union If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.
- Within the European Union:



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product. The mark on electrical and electronic products only applies to the current European Union Member States.

Please follow the national guidelines for electrical and electronic product disposal.

Cleaning Caution

- Disconnect the AC power and remove the battery pack (s) before cleaning.
- Wipe the FMIX using a clean cellulose sponge or chamois cloth dampened with a solution of nonabrasive detergent and a few drops of warm water and remove any extra moisture with a dry cloth.
- To clean the LCD panel, gently wipe it with a piece of soft dry cloth.

Explanation of Graphical Symbols

The following symbol may appear on FMIx





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1. Introduce

FM1x, an Intel Atom platform based WebPAD with 12.1" LCD, it provides two USB2 host ports, 10/100/1000 base-T RJ45 port, standard CRT port, headphone-out and Ext. Microphone-in jacks for I/O interface, Also contains 4 function keys for customized programming, built-in IEEE802.11b/g/n WLAN for wireless communication. Likewise, FM1x offers the storage expansion capability through the SD/MMC slot, and security identify function via optional Smart Card reader and RFID reader, The FM1x absolutely be a perfect model for hospital/business IT management, entertainment, VOIP application and distinctive application in various fields.

Applications

The FMIx series Web PC is designed to fit hospital environments. This product will not use in Patient vicinity. Its durability and strength also makes it an ideal choice for public access computers. Some possible applications include:

- Preoperative Information System (PIS)
 - O Pre-operative data recording
 - O Post-operative data recording
- Bedside terminal
 - O Real-time patient data recording
 - Patient communication system
 - O Bedside entertainment
 - Medical information processing
 - Computer-based testing center
 - O Electronic medical record
 - O Mobile nursing station
 - Interactive clinical education
 - O Electronic booking system

2. Item Checklist

Take out the system unit from the carton. Remove the unit by carefully clutching the foam inserts and remove slowly to protect the system. The following contents should be found in the carton:



a. System



c. Medical Power Adapter



f. Battery Pack(4S1P)



b. Medical Grade Power cord for US Standard



d. Stylus Pen

3. System View

Refer to the pictures below to identify the components.

3.1. Front View

<u>4:3</u>



<u>16:10</u>



3.2.1. Left Side View



3.2.2. Right Side View



3.2.3. Up Side View



3.2.4. Bottom Side View



3.3. Rear View



4. Basic Operations

This section helps you to start using your FM1X-A12.

4.1. Install the Battery Pack



a. Insert the battery pack until it clicks into place.



b. Slide both Battery Release tabs to the lock position.

4.2. Connect the AC Power Adapter

IMPORTANT! Damage may occur if you use a different adapter to power the FMIx or use the FMIx's adapter to power other electrical devices. You may damage both your battery pack(s) and the FMIX with a faulty AC-DC adapter.



(2) Plug the AC power cord into an electrical outlet (3) Insert the DC power plug

4.3. Turn ON the FMIx



a. Press the power button and release at the right side of the system.

4.4. Using the Stylus Pen



IMPORTANT! DO NOT touch the screen with sharp objects or any other type of writing instrument. It can damage the screen.

The FMIx has a touch-sensitive screen. It allows you to use your stylus pen or finger to interact with the device. With the FMIx, you can input data using the full screen area.

5. Mounting

The FMIx Web PAD can be mounted onto the wall or stand.

CAUTION: When mounting the monitor, take care to tighten the retention screws or bolts until fully secure, but do not over tighten. Over tightening the retention screws or bolts may cause them to become stripped, rendering them useless.

Wall Mounting Installation

The FMIx has Video Electronics Standards Association (VESA) standard mounting holes tapped into the rear panel. The standard holes are M4 set at 75 mm x 75 mm apart



6. Drivers Installation

6.1. Chipset Driver Installation



a. Click the Setup.exe on the My Computer window.



c. Click the "Yes" button on the Setup window.



b. Click the "Next" button on the Setup window.



d. Click the "Next" button on the Setup window.



e. Select "Yes, I want to restart my computer now" and click the "Finish" button on the Setup window.

6.2. Touch Panel Driver Installation(USB Interface)



a. Click Setup.exe



b. Click "Next" Button





Click the "OK" button





Enable check box, and Click the "Next" button



c. Click the "Next" button



Click the "Next" button

Luge compen	sation	Hardware	About
General	Setting	Tools) Displa
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	nscreen Controlle	18	
USB Controlle	er.		
6			
11		į.	1

Click the "OK" button

Stouchkit : USB Controller	
Edge Compensation Hardware About	
General Setting Iools Display	
Linearization Curve	
4 Points Calibration Clear and Calibrate Clear and Calibrate	Plasme Succession 27 and 6 steps 18440g
Linearization Do 9 points linearization for better touchscreen linearity.	
Draw Test	T.
OK Cancel Apply	
Select "Setting for Touch Panel Calibration	Click "+" to Calibrate touch panel"

6.3. VGA Driver Installation



a. Click the "Setup.exe" on the My Computer window.



Click the "Next" button on the Intel(R) Chipset Graphics Driver Software-InstallShield(R) Wizard window.



Click the "Yes" button

Intel® Graphics Media Acc Readme File Information	elerator Driver	intel
Refer to the Readme file below to view the syste	m requirements and installa	tion information.
* * Production Version Release * * Hicrosoft Windows* 2000		
* Microsoft Windows* XP	< gack [junct >	Cancel

b. Click the "Next" button

stel® Graphics Media Accelerator Dri	ver
Intel© Graphics Media A Setup Progress	ccelerator Driver (intel)
Please wait while the following setup operation	ns are performed:
Copying File: HEMIENU.dl Creating Key: HRUMSystem/CurrentControlS Creating Key: HRUMSystem/CurrentControlS Creating Key: HRUMSSHEM/CurrentControlS Creating Key: HRUMSSHEM/CarentControlS Creating Key: HRUMSSHEM/ACTIVATE/Microsoft/W Creating Inv: HRUMSSHEMATE/Microsoft/W Installing Driver: Mobile Intel(R) 945 Express Version: 6.14.10.4926	et/Control/Windows/SystemDirectory=C/WINDC et/Service()ahr/Device()SystemDirectory=C/W et/Service()ahr/Device()SystemDirectory=C/W et/Service()ahr/Device()SystemDirectory=C/W indows/Current/Version().Ininitial/PCMS/planistal/S Chipset Family
Cick Next to continue.	
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	Intellity the Literature Procession,

c. Click the "Next" button



d. Select "Yes, I want to restart my , and Click the "Finish" button

Control Road State State

6.4. LCD Brightness setting

Tablet and Pen Settings Settings Display Tablet Buttons Pen Options Screen orientation Select a screen orientation to use.

Preview: Sequence... Change... Screen bright You can adjust screen brightness settings for each power scheme. Settings for: When plugged in ~ Brightness: Dark Bright OK Cancel Apply Help

Primary landscape

¥

Choose "Tablet & Pen settings" icon

6.5. Screen Rotation Setting



Choose "Intel chipset Graphics setting" icon

a. LCD Brightness setting

Orientation:



b. Select "Graphics Properties"

Graphics Hedia Accelerator Driver for mobile	ANOTEBOOK		Scheme Options
Display Devices	Color Quality	32 Bit	Rotation
Display Settings	Screen Resolution	1024 x 768	Enable Rotation
Color Correction Hot Keys Aspect Bate	Refresh Rate	60 Herz	90 C 📈 C 270
	Options	C 180	
(intel)			Pitron Settings
Launch Zoom	30 Settings		
and the second second	- Constanting	-	

- a.) Choose "Display setting
- b.) Enable Rotation setting

6.6. Audio Driver Installation



a. Select "Setup.exe " on Audio driver folder



Finished. Select "Yes, I want to restart my computer now" and click the "Finish" button.

6.7. Button Driver Installation



Select "Setup" on the My Computer window.



Click the "Install" button on the Button Driver – InstallShield Wizard window.



Select "Yes, I want to restart my computer now" and click the "Finish" button.



Click the "Next" button on the Button Driver – InstallShield Wizard window.



Click the "Continue Anyway" button on the Hardware Installation window.

6.7.1. Programmable Software Buttons-"Customize Setting"

(inge i s	Tablet Buttons Pen Options	
Screen orientati	ion	
Select a screer	n orientation to use.	
Orientation:	Primaru landscane	
Preview:		
Sequence	Change	
ocquerice	<u>Criange</u>	
Screen brightne	155	
You can adjust	screen brightness settings for each power scheme.	
	When plugged in	
Settings <u>f</u> or:		
Settings <u>f</u> or: Brightness:	Dark Bright	



F2 - On Screen Keyboard



F3 – Screen Rotation



6.8. LAN Driver Installation



a. Select "Setup.exe" on the My Computer window.



b. Select "next" button on the My Computer window.



c. Select "finish" button

6.9. Wireless LAN Driver Installation



a. Click the "setup.exe" on the My Computer window.



 Select "I agree", and Click the "Next" Button







e. Click the "Next" button.



d. Click the "Next" button

Ralink	The bould field folder block has not seen and a sound of field folders field. The field field for and for with a

f. Click the "Finish" button.



You can Select "Use Zero Configuration" setting on the "Ralink Wireless Utility" to change Wireless utility through "Microsoft wireless utility"

7. Replace Components

7.1. Remove the Battery Pack

IMPORTANT! Never attempt to remove the battery pack while the FMIX is turned ON, as this may result in the loss of working data.



a. Slide both battery release tabs to the unlock position.



b. Pull the battery pack away from the body.

7.2. Replace the Memory Module

IMPORTANT! DO NOT touch the golden contacts as this can damage the Ensure memory that the notches in the memory module line up with the DIMM slot keys.



a. Remove the screw (1).



b. Use your fingers to push the two metal latches on the side of the slot click.



c. Remove the memory module from the slot.

7.3. Replace the Storage Device



a. Remove the screws (2) that secure the HDD cover.



b. Slide the HDD towards you.



c. Disconnect the HDD cable carefully.



d. Replace the 1.8" HDD.

8. Specification

8.1 Detail Product Specification

Model		FMIx
Motherboard	CPU	Intel Atom N270 @1.6GHz
	Core Logic	Intel 945GSE
	SO-DIMM (DRR II)	Standard 1GB, Max. 2GB
	VGA & Graphic	Built-in Intel 945GSE
LCD & Touch	LCD Size	12.1" TFT LCD, Normal LCD 4:3
		Or 12.1" TFT LCD, Wide Screen LCD 16:10
	Brightness	Around 200 nits
	Resolution	XGA 1024 x 768 , with CCFL BL
		Or WXGA 1280 x 800, with LED BL
	Touch Type	12.1" Resistive Type Touch Screen
Storage & Expansion	HDD or	1.8" SATA SSD 16/32 GB
	Compact Flash	or Compact Flash Card 2/4/8/16GB
	Card Reader	SD/MMC/ Option slot x 1 & Smart Card Reader x 1
	Mini PCIe Slot	Mini PCIe Internal Slot x 1
Input/Output Ports	USB2.0	Two ports
	LAN	1 x RJ45 connecter (10/100/1000 Mbps)
	Audio Jack	1 x Headphone Jack
	CRT Output	1 x 15-pin female connecter
	Microphone	1 x External Jack & 1 x Built-in
	Cradle Connector	18-pin connecter
	Built-in Audio	Mono microphone and stereo speakers
Indicators & Buttons	LED	2 (Power/Charge & Wireless for 4:3)
		Or 3 (Power/Charge, Storage Access & Wireless for 16:10)
	Hotkeys	6 for 4:3 Bezel (2 mouse key included)
		6 for 16:10 Bezel
Wireless	Wi-Fi	Built-in 802.11 b/g/n module (USB)

	Bluetooth-Option	Built-in V2.1 +EDR odule (USB)
Power & Battery	Power Adapter	Cincon Electronics Co., LTD
		TR60M19
		Input: 90 ~240Vac
		Output: DC19V, 3.15A
	Battery Pack	Rechargeable Li-ion Battery
		(4S1P 14.8V @2400mAh)
	Battery Running Time	3~4 hours for Normal usage
Environmental	EMC & Safety	CE/FCC Class B, cUL
	Operating Temperature	+41 ° to +95 ° F (+5 ° to +35 ° C)
	Storage Temperature/	Temperature: 0°C ~ 45°C
	Transportation	Humidity: 10% ~ 95% Non-condensing Atmospheric pressure: 500~1060 hPa
	IP Level	IPX0
	Product Life Time	3 years
Dimension (W x H x D)		12.32 x 9.25 x 1.40 Inch (313 x 235 x 35.7 mm)
Net Weight		3.74 lbs (1.7 kgs, with Battery)
Options	Operating System	Windows XPe, -Home, -Pro-Home, Vista
	Bar Code Scanner	Symbol SE4400
	Stylus Pen	1

8.2 Classification

- Power by Class I power adapter:
- \circ $\,$ No protection against the ingress of water: IPX0 $\,$
- Mode of operation: Continuous Operation
- The equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide: Not AP or APG Category
- \circ $\,$ Not for Life-Support $\,$

9. Contact Information

MoBitS Electronic, Inc.

Phone: +886-2-2603-9288 Fax: +886-2-2601-2877 World Wide Web: www.mo-bits.com Sales Email: sales@mo-bits.com

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999/ IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.