

IFO2225-830 Series

All-In-One 22" Super Slim & Fanless Panel Computer

User's Manual

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Safety Approvals

- CE Marking
- ♦ FCC Class A

• FCC Compliance

This equipment has been tested in compliance with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are meant to provide reasonable protection against harmful interference in a residential installation. If not installed and used in accordance with proper instructions, this equipment might generate or radiate radio frequency energy and 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 methods:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment to another outlet of a circuit that doesn't connect with the receiver.
- 4. Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with the emission limits.

Safety Precautions

Before getting started, read the following important safety precautions.

- 1. The **IFO2225-830 Series** does not come equipped with an operating system. An operating system must be loaded first before installing any software into the computer.
- 2. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any staticshielded devices. Most electronic components are sensitive to static electrical charge.
- Disconnect the power cord from the IFO2225-830 Series before any installation. Be sure both the system and external devices are turned OFF. A sudden surge of power could ruin sensitive components that the IFO2225-830 Series must be properly grounded.
- 4. Make sure it is the correct voltage of the power source before connecting the equipment to the power outlet.
- 5. The brightness of the flat panel display will be getting weaker as a result of frequent usage. However, the operating period varies depending on the application environment.
- 6. Turn OFF the system power before cleaning. Clean the system using a cloth only. Do not spray any liquid cleaner directly onto the screen. The IFO2225-830 Series may come with or w/o a touchscreen. Although the touchscreen is chemical resistant, it is recommended that you spray the liquid cleaner on a cloth first before wiping the screen. In case your system comes without the touchscreen, you must follow the same procedure and not spray any cleaner on the flat panel directly.
- 7. Avoid using sharp objects to operate the touchscreen. Scratches on the touchscreen may cause malfunction or internal failure to the touchscreen.
- The flat panel display is not susceptible to shock or vibration. When assembling the IFO2225-830 Series, make sure it is securely installed.
- 9. Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20 $^\circ\!C$ or above 60 $^\circ\!C$. It may damage the equipment.
- 10. External equipment intended for connection to signal

input/out or other connectors shall comply with relevant UL/IEC standard.

- 11. Do not open the system's back cover. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:
 - Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
 - When handling boards and components, wear a wristgrounding strap, available from most electronic component stores.

Classification

- 1. Degree of production against electric shock: not classified
- 2. Degree of protection against the ingress of water: IPX1
- 3. Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- 4. Mode of operation: Continuous
- 5. Type of protection against electric shock: Class I equipment

General Cleaning Tips

You may need the following precautions before you begin to clean the computer. When you clean any single part or component for the computer, please read and understand the details below fully.

- 1. When you need to clean the device, please rub it with a piece of dry cloth.
- 2. Be cautious of the tiny removable components when you use a vacuum cleaner to absorb the dirt on the floor.
- 3. Turn the system off before you start to clean up the component or computer.
- 4. Never drop the components inside the computer or get circuit board damp or wet.
- 5. Be cautious of all kinds of cleaning solvents or chemicals when you use it for the sake of cleaning. Some individuals may be allergic to the ingredients.
- 6. Try not to put any food, drink or cigarette around the computer.

Cleaning Tools:

Although many companies have created products to help improve the process of cleaning your computer and peripherals users can also use household items to clean their computers and peripherals. Below is a listing of items you may need or want to use while cleaning your computer or computer peripherals.

Keep in mind that some components in your computer may only be able to be cleaned using a product designed for cleaning that component, if this is the case it will be mentioned in the cleaning.

- Cloth: A piece of cloth is the best tool to use when rubbing up a component. Although paper towels or tissues can be used on most hardware as well, we still recommend you to rub it with a piece of cloth.
- Water or rubbing alcohol: You may moisten a piece of cloth a bit with some water or rubbing alcohol and rub it on the computer. Unknown solvents may be harmful to the plastics parts.
- Vacuum cleaner: Absorb the dust, dirt, hair, cigarette particles, and other particles out of a computer can be one of the best methods of cleaning a computer. Over time these items can restrict the airflow in a computer and cause circuitry to corrode.

- Cotton swabs: Cotton swaps moistened with rubbing alcohol ۲ or water are excellent tools for wiping hard to reach areas in your keyboard, mouse, and other locations.
- Foam swabs: Whenever possible it is better to use lint free swabs such as foam swabs.



Note We strongly recommended that you should shut down the system before you start to clean any single components.

Please follow the steps below:

- 1. Close all application programs
- 2. Close operating software
- 3. Turn off power switch
- 4. Remove all device
- 5. Pull out power cable

Scrap Computer Recycling

If the computer equipments need the maintenance or are beyond repair, we strongly recommended that you should inform your Axiomtek distributor as soon as possible for the suitable solution. For the computers that are no longer useful or no longer work well, please contact your Axiomtek distributor for recycling and we will make the proper arrangement.

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CHAPTER 1 INTRODUCTION

This chapter contains general information and detailed specifications of the **IFO2225-830 Series**. Chapter 1 includes the following sections:

- General Description
- Features
- System Specification
- Dimensions
- I/O Outlets
- Package List

1.1 General Description

The IFO2225-830 is an ultra slim panel computer equipped with 22inch 300nits high brightness WSXGA+ LCD display and supports superior Intel[®] AtomTM N270 1.6GHz processor with FSB 533MHz. Powered by Intel[®] 945GSE +ICH7M core logic chipset, this panel computer has better graphic performance. The panel also supports Dual View and multiple I/O options including 4 USB 2.0, 4 RS-232 ports. Furthermore, the IFO2225-830 supports antenna for wireless (802.11 b/g) expansion. The IFO2225-830 is designed to work with low noise, low power consumption, high reliability and high performance applications. Besides, excellent ID (industrial design) and user friendly interface design make the IFO2225-830 perfect with super slim, professional outlook, better user interface, and excellent protection at once! This safe, reliable & user-friendly panel computer can ensure customer's project success and best suited for PIO/POS/kiosk, media content display, and HMI solutions.

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1.2 Features

- > 22" high brightness (300nits) WSXGA+ TFT LCD
- ➤ Intel[®] AtomTM N270 1.6GHz processor with FSB 533MHz onboard
- > NEMA 4/12 (IP65) compliant front bezel
- > IPx1 whole enclosure
- > Fanless and noiseless operation
- > Optional 1.3 mega pixels camera
- > Optional wireless (802.11 b/g) antenna

1.3 System Specifications

FRONT BEZEL	PLASTIC ABS		
	DISPLAY TYPE	22" WSXGA+ TFT	
	BRIGHTNESS (cd/m²)	300 nits	
LCD PANEL	RESOLUTION	1680 x 1050	
	VIEWING ANGLE (H/V)	178º/178º	

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	CPU	Intel [®] Atom [™] N270 1.6GHz processor with FSB 533MHz	
	CHIPSET	INTEL [®] 945GSE+ICH7M	
MAIN SYSTEM	SYSTEM MEMORY	SUPPORTS 1 DDR2 SODIMM MEMORY UP TO 2 GB	
	STORAGE	1 x 2.5" SATA HDD DRIVE BAY 1 x CompactFlash	
	OPTICAL DRIVE	OPTIONAL COMBO DRIVER	
	1 x RS-232/RS-422/RS-485 (COM 1)		
	3 x RS-232		
	4 x USB 2.0		
I/O CONNECTORS	1 x AUDIO (LINE-OUT)		
	1 x VGA		
	2 x 10/100/1000Mbps ETHERNET		
	1 x 12V DC-IN PO	WER CONNECTOR	
CAMERA	1 x 1.3 MEGA PIXELS CAMERA (option)		
	RESISTIVE TYPE		
TOUCHSCREEN	LIGHT TRANSMISSION: 80%		
	TOUCH LIFETIME: 35 MILLION TOUCHES		
POWER SUPPLY	12V AC-DC ADAPTOR		
DIMENSIONS	574mm (22.58") (W) x 69mm (2.69") (D) x 399mm (15.71") (H)		
WEIGHT	8.22kg (18.12 lb)		

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ENVIRONMENTA L	OPERATION TEMPERATURE: 0ºC~40ºC (32ºF~104ºF) RELATIVE HUMIDITY: 10%~95%, NON- CONDESING
	SHOCK: 10G PEAK ACCELERATION (11 SEC. DURATION)
CERTIFICATION	CE



NOTE All specifications and images are subject to change without notice.

Introduction

1.4 Dimensions

The following diagrams show you dimensions and outlines of the **IFO2225-830 Series**.



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1.5 I/O Outlets

The following figures show you the locations of the $\ensuremath{\text{IFO2225-830}}$ Series I/O outlets.



> I/O Outlets



NO	CONNECTOR
1	BRIGHTNESS ADJUST BUTTONS
2	VOLUME ADJUST BUTTONS
3	POWER LED
4	DC-IN POWER CONNECTOR
5	COM 1 (RS-232/422/485)
6	COM 2 (RS-232)
7	VGA
8	ETHERNET
9	USB 2.0 x 2
10	AUDIO (LINE-OUT)
11	USB 2.0 x 2
12	COM 3 (RS-232)
13	COM 4 (RS-232)

1.6 Packing List

The package bundled with your **IFO2225-830** should contain the following items:

- IFO2225-830 Series Unit x 1
- 12V AC-DC Power Adaptor
- Power Cord x 1
- CD x 1 (For Driver and User's Manual)
- combo Cover x 2 (For within combo type)
- SATA cable x 1
- Cable Management Kit x 2
- Wall-Mount Bracket x 1
- M4 x 8 Screws x 4 (for VESA Mounting)
- M3 x 5 Screws x 2 (for Cable Management Kit)

If you can not find this package or any items are missing, please contact AXIOMTEK distributors immediately.

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CHAPTER 2 HARDWARE INSTALLATION

The **IFO2225-830 Series** are convenient for your various hardware configurations, such as CPU (Central Processing Unit) and HDD (Hard Disk Drive). The chapter 2 will show you how to install the hardware. It includes:

2.1 DRAM Installation

The IFO2225-830 provides one 200-pin DDR2 SODIMM sockets that support system memory up to 2GB. Please follow steps below to install the memory modules:

Step 1 Turn off the system, and unplug the Power cord.



Step 2 Locate and release these screws to open the back cover



Step 3 Please open the back cover by lifting the joint part as marked.

Step 4 Open the back cover and find mainboard



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Step 5 _____Push down latches on each side of the DIMM socket.

Step 6 Install the memory module into the socket and push it firmly down until it is fully seated. The socket latches are levered upwards and clipped on to the edges of the DIMM.





Step 7 Close the back cover to the chassis, and fasten all screws.

2.2 Hard Disk Drive Installation

The **IFO2225-830 Series** offers a convenient drive bay module for users to install HDD. The system offers users one 2.5" Hard Disk Drive for installation. Please follow the steps:

- **Step 1** Turn off the system, and unplug the Power cord.
- Step 2 Locate and release these screws to open the back cover.





Step 3 Please open the back cover by lifting the joint part as marked.



Step 4 Locate the HDD socket as marked.

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Step 5 Use assembly parts to fix HDD with the bracket.

- 1. HDD Bracket x1
- 2. 2.5 inch Hard-disk
- 3. Screw x 4
- 4. Assembly the HDD with the bracket.

ATTENTION Please follow the direction of Hard-disk installation. "Hard-disk PCB facesup".



Step 6 Install the HDD bracket inside the system. Plug the SATA and Power cables in HDD.



Step 7 Close the back cover to the chassis, and fasten all screws.

2.3 CF Card Installation

The **IFO2225-830 series** provides one CF slot for users to install CompactFlashTM card. Please refer to the following instructions for installation:

Step 1 Turn off the system, and unplug the Power cord.



Step 2 Locate and release these screws to open the back cover.



Step 3 Please open the back cover by lifting the joint part as marked.

Step 4 Unplug the CD-ROM Power cord, if IFO2225-830 is with CD-ROM version.



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Step 5 Locate the CompactFlashTM socket, and insert the card into the socket.





Step 6 Plug the CD-ROM Power cord, if IFO2225-830 is with CD-ROM version.



Step 7 Close the back cover to the chassis, and fasten all screws.



2.4 Serial Ports Interface

The **IFO2225-830 series** has two onboard serial ports, COM1 (RS-232/422/485) and COM2 (RS-232).

The following table shows you the pin assignments of this connector:

Pin	Signal	Pin	Signal		
1	Data Carrier Detect (DCD)		Data Set Ready (DSR)		
2	Receive Data (RXD)	7	Request To Send (RTS)		
3	3 Transmit Data (TXD)		Clear To Send (CTS)		
4	4 Data Terminal Ready (DTR)		Ring Indicator (RI)		
5	Ground (GND)				
$\textcircled{6} (10 \circ 0 \circ 0) \textcircled{6} (10 \circ 0) \textcircled{6} (10 \circ 0 \circ 0) \textcircled{6} (10 \circ 0) $					

In addition, COM1 can be set for RS-232/422/485 by jumper. The jump setting is listed as below:

COM1	JP11	JP12	JP13
RS-232 (default)	3-5, 4-6	3-5, 4-6	1-2
RS-422	1-3, 2-4	1-3, 2-4	3-4, 7-8
RS-485	1-3, 2-4	1-3, 2-4	5-6, 7-8

5	3	1	531	7	5	3	1
6	4	2	642	8	6	4	2



When COM1 is set to RS-422 or RS-485, the pin assignments are listed below:

Din #	Signal Name		
FIII #	RS-422	RS-485	
1	TX-	DATA-	
2	TX+	DATA+	
3	RX+	No connector	
4	RX-	No connector	
5	No connector	No connector	
6	No connector	No connector	
7	No connector	No connector	
8	No connector	No connector	
9	GND	GND	

2.5 Wireless Module Installation (Optional)

You can follow the steps below to install an optional wireless module.

- **Step 1** Turn off the system, and unplug the Power cord.
- **Step 2** Locate and release these screws to open the back cover.




Step 3 Please open the back cover by lifting the joint part as marked.

Step 4 Open the back cover and find mainboard (SBC87830).





Step 5 The socket latches are clipped on to the edges of the Mini card. Install wireless LAN card to the socket.

Step 6 Find the built-in Antenna cable which is tied with other cables on the bottom of the device. There are two connectors on wireless LAN card. One is MAIN, and the other is AUX. Connect antenna cable to **MAIN** connector on wireless LAN card.





Step 7 Close the back cover to the chassis, and fasten all screws.

2.6 Mountings (Optional)

There are several mounting ways for the **IFO2225-830 Series**, Wallmount, VESA and Desktop mountings as below:

2.6.1 Wallmount

The mounting for IFO2225-830 Series is Wallmount as below:



Step 1 Prepare all parts for installing the wallmount kit.

Step 2 Assemble the mallmount kit by using screws to fix the backplane.



2.6.2 VESA Mount (Optional)

The mounting for IFO2225-830 Series is VESA-Arm as below: Assemble the VESA-Arm by using screws to fix the backplane.



2.6.3 Desktop Stand (Optional)

The IFO2225-830 Series provides you with an optional Desktop Stand that you can follow the steps below:

Step 1 Prepare the parts of desktop stand.

Screw A	Screw B
Screw C	Hinge Cover
* *	

Step 2 Assemble the desktop stand. Fix the screws as marked on the bottom side of chassis. (Use Screw A)



Step 3 Fix the screws as marked on the back side of chassis (Use Screw B).





Step 4 Fix the screws as marked on the back side of chassis (Use Screw C and Hinge Cover).

Step 5 Fix the desktop stand firmly.



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CHAPTER 3 AMI BIOS SETUP UTILITY

This chapter provides users with detailed description how to set up basic system configuration through the AMI BIOS setup utility.

3.1 Starting

To enter the setup screens, follow the steps below:

- 1. Turn on the computer and press the key immediately.
- 2. After you press the <Delete> key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

Navigation Keys 3.2

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.

These keys include <F1>, <F10>, <Enter>, <ESC>, <Arrow> keys, and so on.



Note Some of navigation keys differ from one screen to another.

← Left/Right	The Left and Right <arrow> keys allow you to select a setup screen.</arrow>
↑ ↓ Up/Down	The Up and Down <arrow> keys allow you to select a setup screen or sub-screen.</arrow>
+– Plus/Minus	The Plus and Minus <arrow> keys allow you to change the field value of a particular setup item.</arrow>
Tab	The <tab> key allows you to select setup fields.</tab>
F1	The <f1> key allows you to display the General Help screen.</f1>

F10	The <f10> key allows you to save any changes you have made and exit Setup. Press the <f10> key to save your changes.</f10></f10>
Esc	The <esc> key allows you to discard any changes you have made and exit the Setup. Press the <esc> key to exit the setup without saving your changes.</esc></esc>
Enter	The <enter> key allows you to display or change the setup option listed for a particular setup item. The <enter> key can also allow you to display the setup sub- screens.</enter></enter>

3.3 Main Menu

When you first enter the Setup Utility, you will enter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section. The Main BIOS Setup screen is shown below.

		BIOS SE	TUP UTILITY		
Main Advanc	ced PCIPnP	Boot	Security	Chi	ipset Exit
System Overvia	ew				Use [ENTER], [TAB]
AMIBIOS Version :	SBC87830 XA102	2			select a field.
Build Date : VBIOS Version :	06/15/09 V1.03				Use [+] or [-] to configure system Time.
Processor Genuine Intel (R) Speed :16001	CPU N270 @1 MHz	.60GHz			
System Memory Size : 5(D4MB				 ← Select Screen ↑↓ Select Item ↓ Channe Field
System Time		[06:2	7:11		Tab Select Field
System Date		ESun	08/16/2009]		F1 General Help F10 Save and Exit ESC Exit
L02	64 (0) 0 1	1.1 4005 2	000	м	
002	bi (C) Copyrig	NT 1985-2	CUUB, America	an neç	jatrends, InC.
 System 	Time/Date				

Use this option to change the system time and date. Highlight

System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time is entered in HH:MM:SS format.

3.4 Advanced Menu

The Advanced menu allows users to set configuration of the CPU and other system devices. You can select any of the items in the left frame of the screen to go to the sub menus:

- CPU Configuration
- IDE Configuration
- SuperIO Configuration
- Hardware Health Configuration
- ACPI Configuration
- APM Configuration
- MPS Configuration
- PCI Express Configuration
- USB Configuration

For items marked with "▶", please press <Enter> for more options.

			BIOS SE	TUP UTILITY			
Main	Advanced	PCIPnP	Boot	Security	Ch	ipset	Exit
Main Advanc WARNIN > CPU > IDE > Supe > Hard > ACPI > APM > MPS > PCI > USB	Advanced eed Settings IG: Setting w may cause Configuratio crIO Configuratio rIO Configurati Configuratio Configuratio Configuratio Express Conf Configuratio	PCIPnP rong value system to n ation Configurat on n iguration n	Boot s in bel malfunc	Security	<u></u>	tpset Confi Confi t↓ Enter F1 F10 ESC	Exit igure CPU. Select Screen Select Item Go to Sub Screen General Help Save and Exit Exit
	v02.61 (C) Copyr igh	t 1985-2	006, America	n Me	gatrend	ls, Inc.
		10 5					

AMI BIOS Setup Utility

• Configure advanced CPU settings

This screen shows the CPU Configuration, and you can change the value of the selected option.

Advanced BIUS S	
Configure advanced CPU settings Module Version:3F.0E	Disabled for WindowsXP
Manufacturer:Intel Genuine Intel (R) CPU N270 @ 1.60 Frequency :1.60GHz FSB Speed :532MHz Cache L1 :24KB Cache L2 :512KB Ratio Actual Value:12	GHz
Max CPUID Value LimitDisExecute-Disable Bit CapabilityIEnaHyper Threading TechnologyIEnaIntel(R) SpeedStep(tm) techIEnaIntel(R) C-STATE techIEnaEnhanced C-StatesIEna	abled] bled]
v02.61 (C)Copyright 1985-	2006, American Megatrends, Inc.

> Max CPUID Value Limit

You can enable this item to let legacy operating systems boot even without support for CPUs with extended CPU ID functions.

> Execute-Disable Bit Capability

This item helps you enable or disable the No-Execution Page Protection Technology.

> Hyper Threading Technology

Use this item to enable or disable Hyper-Threading Technology, which makes a single physical processor perform multi-tasking function as two logical ones.

Intel (R) SpeedStep (tm) tech

This item helps you enable or disable the Intel SpeedStep Technology.

> Intel (R) C-STATE tech

Use this item to enable or disable the C-State technology.

> Enhanced C-States

This item allows you to enable or disable any available enhanced C-states (C1E, C2E, C3E, C4E and Hard C4E).

• IDE Configuration

You can use this screen to select options for the IDE Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen. For items marked with "▶", please press <Enter> for more options.

	BIOS SETUP UTILITY	
Advanced		
IDE Configuration		Options
ATA/IDE Configuration	[Compatible]	Disabled Compatible Enhanced
▶ Primary IDE Master ▶ Third IDE Master	:[Not Detected] :[Not Detected]	
		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
v02.61 (C) Copyri	ight 1985-2006, American M	legatrends, Inc.

> Primary/Secondary/Third IDE Master/Slave

Select one of the hard disk drives to configure IDE devices installed in the system by pressing <Enter> for more options.

• SuperIO Configuration

You can use this screen to select options for the SuperIO Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.

Advanced	BIOS SETUP UTILI	TY
Configure Win627UHG Super IO Chipset		Allows BIOS to Select Serial Port1 Base
Serial Port1 Address	[3F8]	Addresses.
Serial Port2 Address	[2F8]	
Serial Port2 IRQ	[3]	
Serial Port3 Address	[3E8]	
Serial Port3 IRQ	[11]	
Serial Port4 Address	[2E8]	
Serial Port4 IRQ	L101	
		← Select Screen
		14 Select Item
		+- Change Uption
		FIG Saug and Exit
		ESC Exit
u02_61_(f)Comm	iabt 1985-2006, Amer	ican Merratrends. Inc

> Serial Port1 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 1. The Optimal setting is *3F8/IRQ4*. The Fail-Safe default setting is *3F8*.

Serial Port1 IRQ

This item specifies the IRQ used by the serial port 1.

> Serial Port2 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 2. The Optimal setting is *2F8/IRQ3*. The Fail-Safe setting is *2F8*.

Serial Port2 IRQ

This item specifies the IRQ used by the serial port 2.

Serial Port3 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 3.

Serial Port3 IRQ

This item specifies the IRQ used by the serial port 3.

> Serial Port4 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 4.

> Serial Port4 IRQ

This item specifies the IRQ used by the serial port 4.

• Hardware Health Configuration

This screen shows the Hardware Health Configuration, and a description of the selected item appears on the right side of the screen.

Advanced	BIOS SETUP UTILITY	
Hardware Health Configu	ration	
System Temperature CPU Temperature	:38°C/100°F :29°C/84°F	—
Ucore +1.05U +3.3U +12V	:1.152 U :1.032 U :3.328 U :12.288 U	
		 ← Select Screen ↑↓ Select Item F1 General Help F10 Save and Exit ESC Exit
u02.61 (C) Con	uright 1985-2006. America	an Megatrends, Inc.

> System Temperature/CPU Temperature

These items display the temperature of CPU and System, Vcore, etc.

ACPI Settings

You can use this screen to select options for the ACPI Settings, and change the value of the selected option. A description of the selected item appears on the right side of the screen.

	BIOS SETUP UTILITY	
Advanced		
ACPI Settings		Select the ACPI
 Suspend mode ACPI Version Features ACPI APIC support 	[51 (POS)] [ACPI v2.0] [Enabled]	System Suspend.
		 ← Select Screen 1↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit
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• APM Configuration

You can use this screen to select options for the APM Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.

B	IOS SETUP UTILITY	
Advanced		
APM Configuration		Enable or disable
Power Management/APM Video Power Down Mode Hard Disk Power Down Mode Suspend Time Out Throttle Slow Clock Ratio Keyboard & PS/2 Mouse Power Button Mode	[Enabled] [Suspend] [Suspend] [Disabled] [50%] [MONITOR]	
Advanced Resume Event Controls Resume On Ring Resume On RTC Alarm	[Disabled] [Disabled]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit

> Power Management/APM

Set this item to allow Power Management/APM support. The default setting is *Enabled*.

Disabled	Set this item to prevent the chipset power management and APM (Advanced Power Management) features.
Enabled	Set this item to allow the chipset power management and APM (Advanced Power Management) features. This is the default setting.

> Video Power Down Mode

This option specifies the Power State that the video subsystem enters when the BIOS places it in a power saving state after the specified period of display inactivity has

expired. The default setting is Suspend.

Disabled	This setting prevents the BIOS from initiating any power saving modes concerned with the video display or monitor.
Suspend	This option places the monitor into suspend mode after the specified period of display inactivity has expired. This means the monitor is not off. The screen will appear blacked out. The standards do not cite specific power ratings because they vary from monitor to monitor, but this setting use less power than Standby mode. This is the default setting.

> Hard Disk Drive Power Down Mode

This option specifies the power conserving state that the hard disk drive enters after the specified period of hard drive inactivity has expired. The default setting is *Suspend*.

Disabled	This setting prevents hard disk drive power down mode.			
Suspend	This option cuts the power to the hard disk drives during a system suspend. This is the default setting.			

Suspend Time Out (Minute)

This option specifies the length of time the system waits before it enters suspend mode. The default setting is *Disabled*.

Disabled	This setting prevents the system from entering suspend mode. This is the default setting.
1 Min	Set this item to allow the computer system to enter suspend mode after being inactive for 1 minute.
4 Min	Set this item to allow the computer system to enter suspend mode after being inactive for 4 minutes.
10 Min	Set this item to allow the computer system to enter suspend mode after being inactive for 10 minutes.

> Throttle Slow Clock Ratio

Use this item to specify the speed of the system clock when running the power saving states.

> Power Button Mode

This option specifies how the externally mounted power button on the front of the computer chassis is used. The

default setting is *On/Off*.

On/Off	Pushing the power button turns the computer on or off. This is the default setting. This is the default setting.
Suspend	Pushing the power button places the computer in Suspend mode or Full On power mode.

*** Advanced Resume Event Controls ***

> Resume On Ring

This item enables or disables the function of Resume On Ring that resumes the system through incoming calls.

> Resume On RTC Alarm

You can set "Resume On RTC Alarm" item to enabled and key in Data/time to power on system.

• MPS Configuration

This screen shows the MPS (Multi Processor Specification) Configuration, and you can change its value. A description of the selected item appears on the right side of the screen.

	BIOS SETUP UTILITY	
Advanced		
MPS Configuration	n	Select MPS Revision
MPS Revision	[1.4]	 Select Screen Select Item Change Option General Help Save and Exit ESC Exit
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> MPS Revision

Use this item to select MPS (Multi Processor Specification) Revision 1.1 or 1.4. The default setting is *1.4*.

• PCI Express Configuration

This screen shows the PCI Express Configuration, and you can change its value. A description of the selected item appears on the right side of the screen.

BIOS SETUP UTILITY		
Advanced		
PCI Express Configuration	Enable/Disable	
Active State Power-Management [Disabled]	 PCI Express L0s and L1 link power states. ♦ Select Screen †4 Select Item † Change Option F1 General Help F10 Save and Exit ESC Exit 	
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> Active State Power-Management

Use this item to enable or disable the function of Active State Power-Management to provide you with lower power consumption. The default setting is *Disabled*.

• USB Configuration

You can use this screen to select options for the USB Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.

BIOS SETUP UTILITY		
Advanced		
USB Configuration	Enables support for	
Module Version - 2.24.3-13.4	option disables legacy summort if	
USB Devices Enabled : 1 Keyboard	no USB devices are connected.	
Legacy USB Support [Enabled] USB 2.0 Controller Mode [HiSpeed] BIOS EHCI Hand-Off [Enabled]		
	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit 	
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Legacy USB Support

Use this item to enable or disable support for USB device on legacy operating system. The default setting is *Enabled*.

> USB 2.0 Controller Mode

Use this item to configure the USB 2.0 controller. The default setting is *HiSpeed*.

> BIOS EHCI Hand-Off

Enabling this item provide the support for operating systems without an EHCI hand-off feature. The default setting is *Enabled*.

3.5 PCI PnP Menu

The PCI PnP menu allows users to change the advanced settings for PCI/PnP devices.

	BIOS SETUP UTILITY				
Main Advanced PCIPnP	Boot Security	Chipset Exit			
Advanced PCI/PnP Settings		Clear NURAM during			
WARNING: Setting wrong value may cause system to					
Clear NVRAMINolPlug & Play O/S[Yes]PCI Latency TimerI641Allocate IRQ to PCI VGAIYes]Palette SnoopingDisabled]PCI IDE BusMasterEnabled]OffBoard PCI/ISA IDE CardIAutolIRQ3IAvailable]14 Select ScreenIRQ4IAvailable]+- Change OptionIRQ5IAvailable]F1 General HelpIRQ7IAvailable]F10 Save and ExitIRQ9IAvailable]ESC Exit					
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			BLOS SET	IIP IITTLITY		
Main	Advanced	PCIPnP	Boot	Security	Chi	ipset Exit
		_		í	_	• •
OffBoard	PCI/ISA I	DE Card	[Auto]			Size of memory block
						to reserve for legacy
IRQ3			[Avai]	lablel		ISA devices.
IRQ4			[Avai]	lablel		
IRQ5			[Avai]	lablel		
IRQ7			[Avai]	lablel		
IRQ9			[Avai]	lablel		
IRQ10			[Avai]	lablel		
IRQ11			[Avai]	lablel		
IRQ14			[Ava i]	lablel		
IRQ15			[Ava i]	lablel		
DMA Chan	nel O		[Ava i]	lablel		← Select Screen
DMA Chan	nel 1		[Available]			↑↓ Select Item
DMA Chan	nel 3		[Available]			+- Change Option
DMA Chan	nel 5		[Avai]	lablel		F1 General Help
DMA Chan	nel 6		[Available]			F10 Save and Exit
DMA Chan	nel 7		[Avai]	lablel		ESC Exit
Reserved	Memory Si	ze	[Disal	ledl	•	
	02 61 /	() Canum t- 1	4 100E - 20	00C Anon-to	va Marra	estando. Inc
	002.61 (c) copyr 1gi	IT 1985-20	106, HMerica	n rieg	yatrends, Inc.
				(2)		

Clear NVRAM

Use this item to clear the data in the NVRAM (CMOS). Here are the options for your selection, *No* and *Yes*.

Plug & Play O/S

≻

When the setting is No, Use this item to configure all the devices in the system. When the setting is Yes and if you install a Plug and Play operating system, the operating system configures the Plug and Play devices not required for boot. The default setting is Yes.

> PCI Latency Timer

This item controls how long a PCI device can hold the PCI bus before another takes over. The longer the latency, the longer the PCI device can retain control of the bus before handing it over to another PCI device. There are several options for your selection.

Allocate IRQ to PCI VGA

This item allows BIOS to choose an IRQ to assign for the PCI VGA card. Here are the options for your selection, *No*

and Yes.

Palette Snooping

Some old graphic controllers need to "snoop" on the VGA palette, and then map it to their display as a way to provide boot information and VGA compatibility. This item allows such snooping to take place. Here are the options for your selection, *Disabled* and *Enabled*.

> PCI IDE BusMaster

This item is a toggle for the built-in driver that allows the onboard IDE controller to perform DMA (Direct Memory Access) transfer. Here are the options for your selection, *Disabled* and *Enabled*.

> OffBoard PCI/ISA IDE Card

This item is for any other non-onboard PCI/ISA IDE controller adapter. There are several options for your selection.

> IRQ3/4/5/7/9/10/11/14/15

These items will allow you to assign each system interrupt a type, depending on the type of device using the interrupt. The option "Available" means the IRQ is going to assign automatically. Here are the options for your selection, *Available* and *Reserved*.

> DMA Channel 0/1/3/5/6/7

These items will allow you to assign each DMA channel a type, depending on the type of device using the channel. The option "Available" means the channel is going to assign automatically. Here are the options for your selection, *Available* and *Reserved*.

3.6 Boot Menu

The Boot menu allows users to change boot options of the system. You can select any of the items in the left frame of the screen to go to the sub menus:

- Boot Settings Configuration
- Boot Device Priority
- Removable Drives
- Lan Boot Settings Configuration

For items marked with "▶", please press <Enter> for more options.

			BIOS SE	TUP UTILITY		
Main	Advanced	PCIPnP	Boot	Security	Ch	ipset Exit
Boot S	ettings					Configure Settings
► Boot	Settings Co	nfiguratio				uuring ogstem boot.
► Boot ► Remo	Device Prio vable Drives	rity				
► Lan E	Boot Settings Co	onfiguration				
						 ← Select Screen ↑↓ Select Item
						Enter Go to Sub Screen F1 General Help
						ESC Exit
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Boot Settings Configuration

	BIOS SETUP UTILITY	
	Boot	
Boot Settings Configuration Quick Boot Quiet Boot AddOn ROM Display Mode Bootup Num-Lock PS/2 Mouse Support Wait For 'F1' If Error Hit 'DEL' Message Display	(Enabled) (Disabled) (Force BIOS) (On) (Auto) (Enabled) (Enabled)	Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the system.
		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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> Quick Boot

Enabling this item lets the BIOS skip some power on self tests (POST). The default setting is *Enabled*.

> Quiet Boot

Disabled	Set this item to allow the computer system to display the POST messages.
Enabled	Set this item to allow the computer system to display the OEM logo. This is the default setting.

> AddOn ROM Display Mode

This item selects the display mode for option ROM. The default setting is *Force BIOS*.

Boot Num-Lock

Use this item to select the power-on state for the NumLock. The default setting is *On*.

> PS/2 Mouse Support

This item determines if the BIOS should reserve IRQ12 for the PS/2 mouse or allow other devices to make use of this

IRQ. Here are the options for your selection, *Auto*, *Enabled* and *Disabled*.

> Wait For 'F1' If Error

If this item is enabled, the system waits for the F1 key to be pressed when error occurs. The default setting is *Enabled*.

> Hit 'DEL' Message Display If this item is enabled, the system displays the message "Press DEL to run Setup" during POST. The default setting is *Enabled*.

Boot Device Priority

The Boot Device Priority screen specifies the the boot device priority sequence from the available devices.

	BIOS SETUP UTILITY		
	Boot		
Boot Device Priority		Specifies the boot	
1st Boot Device	[USB:Generic STORAG]	available devices.	
		A device enclosed in parenthesis has been disabled in the corresponding type menu.	
		 ← Select Screen ↑↓ Select Item +- Change Option 	
		F1 General Help F10 Save and Exit ESC Exit	
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AMI BIOS Setup Utility

• Removable Drives

Use this screen to view the removable drives in the system. The BIOS will attempt to arrange the removable drive boot sequence automatically. You can also change the booting sequence.

	BIOS SETUP UTILITY Boot		
Removable Drives		Specifies the boot	
1st Drive	[USB:Generic STORAG]	available devices.	
		← Select Screen	
		14 Select Item	
		F1 General Help	
		F10 Save and Exit ESC Exit	
u02 61 (C) Com	uright 1985-2006. American Me	watrends. Inc	

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Lan Boot Settings Configuration The Lan Boot Settings Configuration can enable or disable Lan Boot ROM to allow the system boot on LAN.

	BIOS SETUP UTILITY Boot	
Lan Boot Settings Configuration		Allows System boot
Lan Boot ROM	[Disabled]	 ← Select Screen ↑ Select Item ↑ Change Option F1 General Help F10 Save and Exit ESC Exit
v02.61 (C)Co	pyright 1985-2006, America	n Megatrends, Inc.

3.7 Security Menu

The Security menu allows users to change the security settings for the system.

			BIOS SE	TUP UTILITY		
Main	Advanced	PCIPnP	Boot	Security	Chi	pset Exit
Secur i Superv	i ty Settings isor Password	l :Not Ins	talled			Install or Change the password.
User F Change Change	'assword 9 Supervisor 1 9 User Passwor	:Not Ins Password r d	talled			
Boot S	Sector Virus I	Protection	Disa	bled]		 ← Select Screen ↑↓ Select Item Enter Change F1 General Help F10 Save and Exit ESC Exit
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> Supervisor Password

This item indicates whether a supervisor password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.

> User Password

This item indicates whether a user password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.

> Change Supervisor Password

Select this option and press <Enter> to access the sub menu. You can use the sub menu to change the supervisor password.

> Change User Password

Select this option and press <Enter> to access the sub

menu. You can use the sub menu to change the user password.

> Boot Sector Virus Protection

This option is near the bottom of the Security Setup screen. The default setting is *Disabled*.

Disabled	Set this item to prevent the Boot Sector Virus
210001000	Protection. This is the default setting.
Enabled	Select Enabled to enable boot sector protection. It displays a warning when any program (or virus) issues a Disk Format command or attempts to write to the boot sector of the hard disk drive. If enabled, the following appears when a write is attempted to the boot sector. You may have to type N several times to prevent the boot sector write. Boot Sector Write! Possible VIRUS: Continue (Y/N)? _ The following appears after any attempt to format any cylinder, head, or sector of any hard disk drive via the BIOS INT 13 Hard disk drive Service: Format!!! Possible VIRUS: Continue (Y/N)?

3.8 Chipset Menu

The Chipset menu allows users to change the advanced chipset settings. You can select any of the items in the left frame of the screen to go to the sub menus:

- North Bridge Configuration
- South Bridge Configuration

For items marked with "▶", please press <Enter> for more options.

BIOS SETUR	UTILITY
Main Advanced PCIPnP Boot S	ecurity Chipset Exit
Advanced Chipset Settings	Configure North Bridge
WARNING: Setting wrong values in below may cause system to malfunction	sections n.
 North Bridge Configuration South Bridge Configuration 	
	 ← Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit
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AMI BIOS Setup Utility

North Bridge Configuration

BIOS SETUP	UTILITY	
	Chip	set
North Bridge Chipset Configuration		Options
DRAM Frequency Configure DRAM Timing by SPD [Enabled] Boots Graphic Adapter Priority Internal Graphics Mode Select [Enabled.	8MB]	Auto 400 MHz 533 MHz
▶ Video Function Configuration		 ✓ Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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> DRAM Frequency

This item allows you to control the Memory Clock.

> Configure DRAM Timing by SPD

This item can enable or disable DRAM timing by SPD (Serial Presence Detect) device, which is a small EEPROM chip on the memory module, containing important information about the module speed, size, addressing mode and various parameters.

> Boot Graphic Adapter Priority

This item allows you to select the graphics controller as the primary boot device.

> Internal Graphics Mode Select

This item allows you to select the amount of system memory used by the internal graphics device.

> Video Function Configuration

Press <Enter> for the sub-menu for setting up video function.
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	BIOS SETUP UTILITY	Chipset
Video Function Configuration	ı	Options
DVMT Mode Select DVMT/FIXED Memory Boot Display Device Flat Panel Type Local Flat Panel Scaling	[DVMT Mode] [Maximum DVMT] [CRT+LFP] [1280x1024 48Bit] [Auto]	- Fixed Mode DUMT Mode Combo Mode
		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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• South Bridge Configuration

BIOS SETUP UTILITY		
	Ch	lipset
South Bridge Chipset Configura	tion	Options
USB Functions USB 2.0 Controller Audio Controller	lEnabled] [Enabled] [Enabled]	Disabled Enabled
SLP_S4# Min. Assertion Width Restore on AC Power Loss	[1 to 2 seconds] [Last State]	
PCIE Ports Configuration		
PCIE Port 0	[Auto]	
PCIE Port 1	[Auto]	
PCIE Port 2	[Auto]	← Select Screen
PCIE Port 3	[Auto]	↑↓ Select Item
PCIE Port 4	[Auto]	+- Change Option
PCIE Port 5	[Auto]	F1 General Help
PCIE High Priority Port	[Disabled]	F10 Save and Exit ESC Exit
PCIE Port 0 IOxAPIC Enable	[Disabled]	
PCIE Port 1 IOxAPIC Enable	[Disabled]	
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	BIOS SETUP UTILITY	hipset
Audio Controller	[Enabled]	Options
SLP_S4# Min. Assertion Width Restore on AC Power Loss	[1 to 2 seconds] [Last State]	Disabled Enabled
PCIE Ports Configuration PCIE Port 0 PCIE Port 1 PCIE Port 2 PCIE Port 3 PCIE Port 4 PCIE Port 5 PCIE High Priority Port PCIE Port 0 IOxAPIC Enable PCIE Port 1 IOxAPIC Enable PCIE Port 2 IOxAPIC Enable PCIE Port 3 IOxAPIC Enable PCIE Port 4 IOxAPIC Enable PCIE Port 5 IOxAPIC Enable	[Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Disabled] Disabled] Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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> USB Function

This item allows you to enable or disable USB function.

> USB 2.0 Controller

This item allows you to enable or disable the USB 2.0 controller.

> Audio Controller

This item allows you to enable or disable the audio support.

> SLP_S4# Min. Assertion Width

This item allows you to set the SLP_S4# Assertion Width.

> Restore on AC Power Loss

This item can control how the PC will behave once power is restored following a power outage, or other unexpected shutdown.

> PCIE Port Configuration

This item allows you to set or disable the PCI Express Ports.

3.9 Exit Menu

The Exit menu allows users to load your system configuration with optimal or failsafe default values 0

			BIOS SET	UP UTILITY		
Main	Advanced	PCIPnP	Boot	Security	Ch i	ipset <mark>Exit</mark>
Exit O Save O Discar Discar Load O Load F	Iptions Changes and E Ed Changes an Ed Changes Iptimal Defau ailsafe Defa	xit d Exit lts ults				 Exit system setup after saving the changes. F10 key can be used for this operation. ← Select Screen 14 Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit
		C) C	4 100E D	000 0	M	aturnal Tur

> Save Changes and Exit

When you have completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configuration parameters can take effect. Select *Save Changes and Exit* from the Exit menu and press <Enter>. Select Ok to save changes and exit.

> Discard Changes and Exit

Select this option to quit Setup without making any permanent changes to the system configuration. Select *Discard Changes and Exit* from the Exit menu and press <Enter>. Select Ok to discard changes and exit.

Discard Changes

Use this item to abandon all changes.

Load Optimal Defaults

It automatically sets all Setup options to a complete set of default settings when you select this option. The Optimal settings are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Optimal Setup options if your computer is experiencing system configuration problems. Select Load Optimal Defaults from the Exit menu and press <Enter>.

> Load Fail-Safe Defaults

It automatically sets all Setup options to a complete set of default settings when you select this option. The Fail-Safe settings are designed for maximum system stability, but not maximum performance. Select the Fail-Safe Setup options if your computer is experiencing system configuration problems.

Select Load Fail-Safe Defaults from the Exit menu and press <Enter>. Select Ok to load Fail-Safe defaults.

CHAPTER 4 DRIVER INSTALLATION

4.1 System

IFO2225-830 supports Windows XP/ Windows Vista to facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

1. Insert Driver CD in the disk, and select the \IFO2225-830\Driver\..



2. Please follow folder Step 1 to Step 7 for IFO2225-830 driver installation.

4.2 Touch Screen

4.2.1 Specification

Touch Screen	For 5-wire analog resistive type	
Touch Screen Controller	PenMount 6000 microcontroller	
Communications	USB Full-speed, 12Mbps	
Resolution	1024 x 1024	
Power Input	5V	
Power Consumption	Standby Mode : 13.4mA; Active Mode: 24.6mA	
	(VCC=5V, Top sheet Panel Resistance: 274 ohm, Bottom sheet Panel Resistance: 770 ohm)	
Board Size	60 x 26 mm	
Portrait	Support 90o, 180o and 270o screen rotation	

4.2.2 Driver Installation

The **IFO2225-830 Series** provides a driver of the touch screen that users can install it under operating system Windows XP/ Windows Vista. To facilitate this touch screen driver installation, users should read the instructions in this chapter carefully before start the installation.

1. Insert Driver CD and select the D:\IFO2225-830\Driver\Step5 -Touch\Driver\Win2000-XP\setup.exe



- 2. Follow the installing procedure and press OK.
- 3. Click Start menu and select "PenMount Utilities", and then a "PenMount Control Panel" pops out.

		لعالعا
Device Multiple Monitors To	ools About	
Penmount Co	ontrol Panel	
Version 1.	0.0.19	
Installed Device(s)		
Device 0 (PenMount 6000) USB)	
Support E-mail :	penmount@seed.net.tw	
Support E-mail : Support Website :	penmount@seed.net.tw http://www.penmount.com.tw	
Support E-mail : Support Website :	penmount@seed.net.tw http://www.penmount.com.tw	[

4. Click the "Standard Calibration" button.

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alibrate Setting Edge Compensation	About
	Advanced Mode 9 💽
Standard Calibration	<u>A</u> dvanced Calibration
Turn off EEPROM storage.	

5. Calibration:

To adjust the display with touch panel, click "Calibration" and follow the calibrate point to do calibration; there are five points on screen for calibration.



6. Press OK.

Appendix