All-in-One 8.4" SVGA TFT Fanless Touch Panel Computer with Intel[®] Atom[™] N270 Processor Onboard

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, please read the following important safety precautions.

- 1. The **FPC 5084** 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 static-shielded devices. Most electronic components are sensitive to static electrical charge.
- 3. Disconnect the power cord from the **FPC 5084** 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 **FPC 5084** must be properly grounded.
- 4. 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.
- 5. 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 **FPC 5084** may come with or w/o a touch screen. Although the touch screen 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 touch screen, you must follow the same procedure and not spray any cleaner on the flat panel directly.
- 6. Avoid using sharp objects to operate the touch screen. Scratches on the touch screen may cause malfunction or internal failure to the touch screen.
- The flat panel display is not susceptible to shock or vibration. When assembling the **FPC 5084**, make sure it is securely installed.
- 8. 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.

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MEMO

CHAPTER 1 INTRODUCTION

This chapter contains general information and detailed specifications of the **FPC 5084**. Chapter 1 includes the following sections:

- General Description
- ④ Specification
- ④ Dimensions
- ④ I/O Outlets
- Package List

1.1 General Description

The FPC 5084 is a fan-less and compact-size touch panel computer, equipped with a 8.4" TFT LCD display and low power consumption Intel [®] Atom[™] N270 1.6GHz processor with FSB 533MHz. The FPC 5084 supports Windows[®] XP, Windows[®] CE.NET and Windows[®] XP embedded. The panel computer is able to install a CompactFlash[™] card and provide a Mini card socket for wireless module. Its excellent ID and friendly user interface make it a professional yet easy-to-use panel computer. The FPC 5084 is an ideal for space-limited applications in factory automation, machine maker operating systems, building automation, and more.

FPC 5084: 8.4" TFT SVGA Fanless Touch Panel Computer

② Reliable and Stable Design

The FPC 5084 adopts a fanless cooling system and a

CompactFlashTM card, which makes it suitable for vibration environments.

② Embedded O.S. Supported

The FPC 5084 not only supports Windows[®] XP, but also supports embedded OS, such as Windows[®] CE.NET, and Windows[®] XP embedded. For storage device, the FPC 5084 830 supports CompactFlashTM card.

Industrial-grade Product Design

The FPC 5084 has an incredible design to be used in different industrial environments.

- * The front bezel meets the IP65/NEMA4 standard.
- * For connecting other devices, the FPC 5084 also features several interfaces: USB, Ethernet, and RS-232/422/485.

1.2 Specifications

1.2.1 Main CPU Board

- ж CPU
- **# System Chipset**
 - ④ 945GSE + ICH7M
- ж BIOS
 - ④ America Megatrends BIOS
- **# System Memory**
 - One 200-pin DDR2 SO-DIMM socket
 - Maximum memory up to 2GB

1.2.2 I/O System

- Image: One RS-232 and one RS-232/422/485
- ④ Two USB 2.0
- ж Ethernet
 - One RTL81111b Gigabit Ethernet
- ж Audio

One Line-out

Expansion

④ One Mini card

- ж Storage
 - ④ One socket for CF card
- ж Box-header
 - Two 2×5 box header for COM3, COM4

1.2.3 System Specification

- ж 8.4" TFT LCD
- **Heat Dispensing Design**
- ж Net Weight
 - ④ 1.3 Kgs (2.87 lb)
- **#** Dimension (Main Body Size)
 - ④ 251x205x 44.6mm
- **#** Operation Temperature
 - ④ 0°C to 45°C
- **# Relative Humidity**
 - ④ 10% to 90% @ 40°C, Non-Condensing
- **% Vibration**
 - $\circledast~5$ to 500 Hz, 2.0 G random for CF card



All specifications and images are subject to change without notice.

NOTE Without notice. If it is operated in high temperature environment, the wide temperature DRAM is reommended.

1.3 Dimensions

This diagram shows you dimensions and outlines of the **FPC 5084 830**.



Introduction



1.4 I/O Outlets

Please refer to the following illustration for I/O locations of the FPC-5084.



No	Function				
1	POWER SWITCH (ATX)				
2	10-30VDC POWER Input				
3	COM 1 (RS-232/422/485)				
4	COM 2 (RS-232)				
5	VGA				
6	ETHERNET (RJ-45)				
7	USB 2.0 X 2				
8	AUDIO (LINE-OUT)				

1.5 Packing List

When you receive the **FPC 5084**, the bundled package should contain the following items:

- ж FPC 5084 x 1 ж
- Panel Mount Kit x 6
- # Driver CD x1
- ⊯ Wall-Mount Kit x1
- # Desktop Stand Kit (optional)
- * VESA ARM (optional)
- # Power Adapter (optional)

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

CHAPTER 2 HARDWARE INSTALLATION

The **FPC 5084** provides rich I/O ports and flexible expansions for you to meet different demand, for example, CF card. The chapter will show you how to install the hardware. It includes:

- ④ CompactFlash[™] Card
- Serial Port
- ④ Ethernet
- Mounting Way
- (a) Dram
- Wireless LAN Card

2.1 CF card Installation

The **FPC 5084** provides one CF socket 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.

Hardware Installation

Step 2 Find out the cover on the side of the system.



Step 3 Locate the CompactFlashTM socket, and insert the card into the socket.

Hardware Installation

2.2 Serial Ports Interface

The **FPC 5084** 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)	6	Data Set Ready (DSR)		
2	Receive Data (RXD)	7	Request To Send (RTS)		
3 Transmit Data (TXD)		8	Clear To Send (CTS)		
4	4 Data Terminal Ready (DTR)		Ring Indicator (RI)		
5 Ground (GND)					
$\textcircled{1}{0}$					

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

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

Hardware Installation



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		

Hardware Installation

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2.3 Ethernet

The **FPC 5084** is equipped with a high performance Plug and Play Ethernet interface, full compliant with IEEE 802.3 standard, and can be connected with a RJ-45 LAN connector.

Please refer to detailed pin assignment list below:

Pin	Signal	
1	TX+ (Data transmission positive	
2	TX- (Data transmission negative)	12345678
3	Rx+(Data reception positive)	
4	RJ45 termination	
5	RJ45 termination	
6	Rx- (Data reception negative)	
7	RJ45 termination	RJ-45
8	RJ45 termination	

Hardware Installation

2.4 Mountings – Panel/Wall/Desktop/VESA

There are several mounting ways for the FPC 5084, Panel, Wall, Desktop and VESA mountings.

2.4.1 Panel Mounting

The **FPC 5084** is designed for panel mount application. A set of standard mounting kit are bundled with the system package that you can use it to mount the **FPC 5084**.



Hardware Installation

2.4.2 Wall-Mounting

The FPC 5084 is designed for Wall mounting application. Please refer to the following steps:

Find out the screws as marked on the back side of chassis.



Hardware Installation

2.4.3 Desktop-Mounting

The FPC 5084 is designed for desktop mounting application. Please refer to the following steps:

Step 1 Find out the screws as marked on the back side of chassis.



Hardware Installation



Step 2 Assemble the desktop stand to the chassis, and fix the screws.

Hardware Installation

2.4.4 VESA-ARM Mounting

Step 1 Find out the screws as marked on the back side of chassis.



Step 2 Assemble the VESA-ARM to the back side of the chassis, and fix the screws.



Hardware Installation

Step 3 VESA mounting Installation completed.

Hardware Installation



FPC <u>5084</u>

Hardware Installation

2.5 DRAM Installation

The FPC 5084 provides one 200-pin DDR2 SO-DIMM socket that support system memory up to 2GB. Please follow steps below to install the memory modules:

1. Unscrew six screws to remove the rear chassis.



2. Find the SO-DIMM socket on mainboard (SBC87830).



Hardware Installation

3. Push down latches on each side of the SO-DIMM socket.



4. 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 SO-DIMM socket.



Hardware Installation

2.6 Wireless LAN Card Installation

The FPC 5084 provides one Mini card socket for user to install one wireless LAN card. When installing the wireless LAN card, refer to the following instructions and illustration:

1. Open the back cover and find mainboard (SBC87830).



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



Hardware Installation

3. Find the built-in Antenna cable which is tied with other cables on the top of the device. Connect antenna cable to **MAIN** connector on wireless LAN card.



 There are two connectors on wireless LAN card. One is MAIN, and the other is auxiliary. Connect antenna cable to MAIN connector on wireless LAN card.



Hardware Installation

МЕМО

Hardware Installation

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.

Starting 3.1

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.

প Left/Right	The Left and Right <arrow> keys allow you to select a setup screen.</arrow>				
ઉત્ત ∯ 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>				

AMI BIOS Setup Utility

F10 The <f10> key allows you to save any changes have made and exit Setup. Press the <f10> key save your changes.</f10></f10>			
Esc The <esc> key allows you to discard any ch you have made and exit the Setup. Press th <esc> key to exit the setup without saving y 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 Advanced	PCIPnP	Boot	Security	Ch	ipset Exit
System Overview					Use [ENTER], [TAB]
Version : SBC87830 X006 Build Date : 06/15/09 VBIOS Version : V1.00					Use [+] or [-] to configure system Time.
Processor Genuine Intel (R) CPU Speed :1600MHz	N270 @1.6	i0GHz			
System Memory Size :1016MB					← Select Screen ↑↓ Select Item +- Change Field
System Time System Date		E06 : 2 ESun	7:11] 02/17/2002]		Tab Select Field F1 General Help F10 Save and Exit ESC Exit
v02.61 (C)Copyright 1985-2006, American Megatrends, 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 "f", please press <Enter> for more options.

BIOS SETUP UTILITY							
Main	Advanced	PCIPnP	Boot	Security	Ch	ipset	Exit
Advanc	ed Settings					Confi	gure CPU.
WARNIN > CPU > IDE > Supe > Hard A CPI > APM > MPS > PCI > USB	G: Setting w may cause Configuratio crIO Configuratio crIO Configuratio Configuratio Configuratio Configuratio Configuratio	rong value system to n n Configurat on n n iguration n	es in bel o malfunc tion	ow sections tion.		← †↓ Enter F1 F10 ESC	Select Screen Select Item Go to Sub Screen General Help Save and Exit Exit
	u02_61_(() Conur ial	of 1985-2	1006. America	n Mer	ratrend	s. Tuc
	002.01 (ся соруг тут	10 IOU-2	.0005 HIMEI ILd	n ne(jacrenu	37 116.

AMI BIOS Setup Utility

Configure advanced CPU settings

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

BIOS SETUP UTILITY	
Advanced	
Configure advanced CPU settings Module Version:3F.0E	Disabled for WindowsXP
Manufacturer:Intel Genuine Intel (R) CPU N270 @ 1.6G Frequency :1600MHz FSB Speed :532MHz Cache L1 :24KB Cache L2 :512KB Ratio Actual Value:12	
Max CPUID Value LimitDisabled]Execute-Disable Bit Capability[Enabled]Hyper Threading Technology[Enabled]Intel (R) SpeedStep (tm) tech[Enabled]Intel (R) C-STATE tech[Enabled]Enhanced C-States[Enabled]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
	ratuanda. Inc

② 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.

Ø 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.

2 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).

H 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 "ff", please press <Enter> for more options.

BIOS SETUP UTILITY	
Advanced	
IDE Configuration	Options
ATA/IDE Configuration [Compatible] Port0 SATA AHCI Speed: GEN 1 (1.5 Gb/sec)	Disabled Compatible Enhanced
 Primary IDE Master Primary IDE Slave Secondary IDE Master Secondary IDE Slave Secondary IDE Slave INot Detected] Third IDE Master Third IDE Slave [Not Detected] Third IDE Slave [Not Detected] 	
	 ← Select Screen ↑↓ Select Iten ← Change Option F1 General Help F10 Save and Exit ESC Exit
002.61 (C)Copyright 1985-2006, American	Megatrends, 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.

AMI BIOS Setup Utility

FPC 5084

Advanced	BIOS SETUP UTILI	
Configure Win627UHG Super Serial Port1 Address Serial Port2 Address Serial Port2 Address Serial Port3 Address Serial Port3 IRQ Serial Port4 Address Serial Port4 Address Serial Port4 IRQ	IO Chipset [3F8] [4] [2F8] [3] [3E8] [11] [2E8] [10]	Allows BIOS to Select Serial Port1 Base Addresses.
		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit

② 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*.

② Serial Port1 IRQ

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

② 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*.

② Serial Port2 IRQ

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

② Serial Port3 Address

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

② Serial Port3 IRQ

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

② 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.

AMI BIOS Setup Utility

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.

	BIOS SETUP UTILITY	
Hdvanced		
Hardware Health C	Configuration	
System Temperatur CPU Temperature	re :38°C/100°F :29°C/84°F	
Vcore +1.05V +3.3V +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
	(C) Commight 1985-2006 Amorican Mg	restrondo Tro

O System Temperature/CPU Temperature

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

ж 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.

ACPI Settings		Select the ACPI
 Suspend mode ACPI Version Features ACPI APIC support 	[S1 (POS)] [ACPI v2.0] [Enabled]	state used for Sy s tem Suspend.
		← Select Screen
		Enter Go to Sub Screen F1 General Help
		F10 Save and Exit ESC Exit

AMI BIOS Setup Utility

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	IEnabled] [Suspend] [Suspend] [Disabled] [50/] [MONITOR] [On/Off]	
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

② 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.

② 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.

e 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.

② 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.

② 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 ***

Ø 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		Select MPS Revision
MPS Revision	[1.4]	
		 Select Screen Select Item Change Option General Help F10 Save and Exit ESC Exit
v02.61 (C) Copyr	ight 1985-2006, American M	egatrends, Inc.

Ø 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] ▶ SB PCIE Ports Configuration	 Content of the second state of the se
u02.61 (f)Commight 1985-2006 American Me	ratrondo. Inc

Ø 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*.

SB PCIE Ports Configuration

Scroll to this item and press <Enter> to view the SB PCIE Ports Configuration sub menu, which contains several options for your configuration.

Advanced		
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	[Auto] [Auto] [Auto] [Auto] [Auto] [Auto] [Disabled]	Options Auto Enabled Disabled
PCIE Port 0 IOxAPIC Enable PCIE Port 1 IUxAPIC Enable PCIE Port 2 IOxAPIC Enable PCIE Port 3 IOxAPIC Enable PCIE Port 4 IOxAPIC Enable PCIE Port 5 IOxAPIC Enable	Disabled] Disabled] Disabled] Disabled] Disabled] Disabled]	 ← Select Screen 14 Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit

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	
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 	
	Turne Turne	

② Legacy USB Support

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

② 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	Ch	ipset Exit		
Advanced PCI/PnP Settings		4	Clear NVRAM during Sustem Boot		
WARNING: Setting wrong valu may cause system t	es in below sections to malfunction.				
Clear NURAM	[No]				
Plug & Play O/S	[No]				
PCI Latency Timer	[64]				
Allocate IRQ to PCI VGA	[Yes]				
Palette Snooping	[Disabled]				
PCI IDE BusMaster	[Enabled]				
UffBoard PCI/ISA IDE Card	lAutol				
7000			← Select Screen		
1 IKU3	LAvailablel		T4 Select Item		
1 IKU4	lAvailablel		+- Change Uption		
1 IKU5	lAvailablel		F1 General Help		
	LAvailablel		F10 Save and Exit		
TKÚA	lAvailablel		ESC Exit		
1 KU10	lAvailablel				
TKÜII	lAvailablel				
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FPC 5084
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BTOS SETUP UTILITY						
Main Advanced	PCIPnP	Boot	Security	Chi	pset	Exit
OffBoard PCI/ISA	IDE Card 👘	[Auto]	A	Size of	`memory block 👘
					to rese	erve for legacy
IRQ3		[Ava i	lablel		ISA dev	ices.
IRQ4		[Ava i	lablel			
IRQ5		[Ava i	lablel			
IRQ7		[Ava i	lablel			
IRQ9		[Ava i	lablel			
IRQ10		[Ava i	lablel			
IRQ11		[Ava i	lablel			
IRQ14		[Ava i	lablel			
IRQ15		[Ava i	lable]			
					_	
DMA Channel 0		[Ava i	lablel		← Se	lect Screen
DMA Channel 1		[Ava i	lablel		t∔ S	elect Item
DMA Channel 3		[Ava i	lablel		+- 0	hange Option
DMA Channel 5		[Ava i	lablel		F1 G	eneral Help
DMA Channel 6		[Ava i	lablel		F10 S	ave and Exit
DMA Channel 7		[Ava i	lablel		ESC E	xit
Reserved Memory S	ize	IDisa	bledl			
02.64	(0) 0 1	4 4005 0	0.05			÷
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			(2)			

Ø **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 Ø

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 No.

Ø **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.

\odot 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.

② 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*.

Ø 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*.

② 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.

② 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*.

② 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 " \mathbf{f} ", 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				aaring ogseem boot.
► Boot ► Remo	Device Prio Jable Drives	rity				
► Lan B	oot Settings Co	onfiguration				
						← Select Screen 1↓ Select Item Enter Go to Sub Screen
						F1 General Help F10 Save and Exit FSC Exit
	v02.61 (C) Copyr igh	t 1985-2	006, American	n Meç	gatrends, Inc.

AMI BIOS Setup Utility

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 Fauto 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 General Help Save and Exit ESC Exit
u02_61_(C) Comunitation	1985_2006 Amorican	Mercatronde Inc

② Quick Boot

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

② 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.

Ø AddOn ROM Display Mode

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

Ø Boot Num-Lock

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

② 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

AMI BIOS Setup Utility

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*.

Ø 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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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 ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
u02.61 (C)Co	puright 1985-2006, American Med	natrends, Inc.

x 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	opyright 1985-2006, Americar	n Megatrends, Inc.

AMI BIOS Setup Utility

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	Ch	ipset Exit
Secur	ity Settings					Install or Change the
Superv User 1 Change Boot 5	Jisor Password Password Sector Virus I	d :Not Ins :Not Ins Password rd Protection	talled talled	tb led]		 ← Select Screen ↑↓ Select Item Enter Change F1 General Help F10 Save and Exit ESC Exit
	<u>n02.61 (</u>	C) Conur iah	1 1985-2	2006. America	n Mer	ratrends. Inc.

② 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.

O 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.

② 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.

② 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.

2 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 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 "f", please press <Enter> for more options.



North Bridge Configuration

BIOS SETUP UTILITY	
Ch	ipset
North Bridge Chipset Configuration	Options
DRAM Frequency Configure DRAM Timing by SPD Boots Graphic Adapter Priority Internal Graphics Mode Select Enabled, 8MB1	Auto 400 MHz 533 MHz
▶ Video Function Configuration	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
u02_61_(C)Commight_190E_20060monicom_Mo	ratuanda. Inc

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.

O Boot Graphic Adapter Priority

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

O 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.

	BIOS SETUP UTILITY	
		Chipset
Video Function Configuration	n	Options
DUMT Mode Select DUMT/FIXED Memory Boot Display Device Flat Panel Type Local Flat Panel Scaling	[DVMT Mode] [128MB] [CRT+LFP] [800x600 18Bit] [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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AMI BIOS Setup Utility

South Bridge Configuration

	BIOS SETUP UTILITY		
		Chi	pset
South Bridge Chipset Configura	ition		Options
USB Functions USB 2.0 Controller Audio Controller	(Enabled] (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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Ĩ	NOS SETUP UTILITY	
	Ch	lipset
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		
PULE PORT U DELF Port 1	LHUTOJ [Auto]	
PCIF Port 2	[Auto]	
PCIE Port 3	[Auto]	
PCIE Port 4	[Auto]	
PCIE Port 5	[Auto]	
PCIE High Priority Port	[Disabled]	← Select Screen
		↑↓ Select Item
PCIE Port 0 IOxAPIC Enable	[Disabled]	+- Change Option
PCIE Port 1 IOxAPIC Enable	[Disabled]	F1 General Help
PCIE Port 2 IOxAPIC Enable	[Disabled]	F10 Save and Exit
PCIE Port 3 IOxAPIC Enable	[Disabled]	ESC Exit
PCIE Port 4 IOxAPIC Enable	[Disabled]	
PCIE Port 5 IOxAPIC Enable	[Disabled]	'
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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.

O Audio Controller

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

② SLP_S4# Min. Assertion Width

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

② 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

Ø

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.

			BIOS SE	TUP UTILITY			
Main	Advanced	PCIPnP	Boot	Security	Chip	pset	Exit
Main Exit O Save C Discar Discar Load O Load F	Advanced ptions hanges and E d Changes an d Changes ptimal Defau ailsafe Defa	PCIPnP xit d Exit lts ults	Boot	Security	Chij	eset Exit after chang F10 k for t for t F10 F10 F10	Exit system setup saving the es. ey can be used his operation. Select Screen Select Item Go to Sub Screen General Help Save and Exit
						LOC	LXIL
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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.

② 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.

② Discard Changes

Use this item to abandon all changes.

② 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>.

② 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 DRIVERS INSTALLATION

4.1 System

FPC 5084 supports Windows 2000/XP. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

1. Insert Driver CD and select the "\Drivers\XP".



2. Select all files and follow the installing procedure.

4.2 Touch Screen

The FPC 5084 uses the 5-wire analog resistve. There are the specification and driver installation which are listed below.

4.2.1 Specification

Touch Screen	5-wire Analog Resistive type		
Touch Screen Controller	PenMount 6000 USB Touch Screen Controller IC		
Communications	USB interface		
Baud Rate	19200 baud rate fixed		
Resolution	1024 x 1024 (10 bit A/D converter inside)		
Power Input	5V		
Power Consumption	Active: 24.6mA / Idle Mode: 13.4mA		

4.2.2 Driver Installation- Windows XP

The FPC 5084 provides a touch screen driver that users can install it under the operating system Windows XP. To facilitate installation of the touch screen driver, you should read the instructions in this chapter carefully before you attempt installation.

1. Insert Driver CD and follow the path to select the "\Drivers\XP\Step 5 - Touch".



2. Follow the installing procedure and press OK.

Installation of Drivers

3. Click Start menu and select "PenMount Utilities"; and then, a "PenMount Control Panel" pops out.

	t Control F	Panel		
Device Mult	ple Monitors	Tools	About	
4	Penmoun Version	t Control F 1.0.0.19	Panel	
Installed	Device(s)			
Device 0	(PenMount 6	000 USB)		
Support	E-mail :		penmount@seed.net.tw	
Support	E-mail : Website :		penmount@seed.net.tw http://www.penmount.com.tw	

- Calibrate Setting Edge Compensation About Calibrate Setting Edge Compensation About Calibrate Setting Edge Compensation About Calibration Calibration
- 4. Select the "Standard Calibrate" tab.

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.

×	
	Touch the red square.
ress (OK.

Installation of Drivers

6.

4.3 Embedded O.S.

The GOT-5840T provides the Windows XP Embedded and Windows CE.Net 6.0. The O.S. is supported devices which are listed below.

4.3.1 Windows XP Embedded

Here are supported onboard devices:

- Onboard Multi I/O
- USB
- CRT/LCD display(Default 18bits Resolution 800x600)
- I0/100/1000 base-T Ethernet
- Compact Flash
- o Onboard Audio
- Touch Screen

PenMount Touch screen

Before you can use and calibrate it, here is what you should do:

- Set up Penmount touch device driver by executing C:\Penmount\ Windows 2000-XP V5.0\setup.exe. When the installation is finished, an icon "PM" appears on the Taskbar.
- 2. Calibrate Penmount touch by clicking on the "PM" icon, and the go on the calibration
- 3. Restart the computer.
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4.3.2 Windows CE.NET 6.0

Here are supported onboard devices:

- Onboard Multi I/O
- IUSB
- ORT/LCD display
 Organization
 Organization
- 10/100/1000 base-T Ethernet
- Ompact Flash
- Onboard Audio
- a Audio
- Touch Screen

Calibration Touch screen

In this image we add PenMount Touch drivers and utilities. It is customized for 800 \times 600.

Calibration:

- 1. Click "Calibratyion" on desktop to calibrate touch screen.
- 2. In the start\programs menu, select "save registry", thus Calibration data will be saved and effective in next booting.