



P1197E-861

All-in-One 19" SXGA TFT Expandable PANEL PC

User's Manual



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CAUTION

If you replace wrong batteries, it causes the danger of explosion. It is recommended by the manufacturer that you follow the manufacturer's instructions to only replace the same or equivalent type of battery, and dispose of used ones.

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Safety Precautions

Before getting started, read the following important cautions.

- 1. 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.
- 2. Disconnect the power cords from the P1197 Series before making any installation. Be sure both the system and the external devices are turned OFF. Sudden surge of power could ruin sensitive components. Make sure the P1197 Series is properly grounded.
- 3. Do not open the system's top 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 wrist-grounding strap, available from most electronic component stores.

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Chapter 1 Introduction

This chapter contains general information and detailed specifications of the P1197E-861. Chapter 1 includes the following sections:



- General Description
- Specification
- Dimensions and Outlines
- I/O Outlets
- Package List

1.1 General Description

The P1197E-861 adopts a 19-inch SXGA TFT LCD with 350-nits brightness and Intel[®] 3rd&2nd Core[™] i7/i5/i3 series, Pentium[®] and Celeron[®] processors and Intel[®] H61 chipset to provide excellent and powerful computing performance. Furthermore, P1197E-861 adopts built-in speaker and option WLAN module for wireless connectivity.

Industrial-grade front bezel

P1197E-861 adopts industrial-grade material front bezel which incorporates the advantages of light weight, high degree of hardness better heat releasing, easy-to-shape and anti-corrosion ability. Therefore, P1197E-861 is especially suitable for most rugged industrial environments.

Expandable for 1 PCIe (1 PCI optional)

P1197E-861 has 1 PCIe (1 PCI optional) for expansion purpose. User can easily plug in standard half-size PCI or PCIe card for any requirement.

Speaker and WLAN Antenna Supported

P1197E-861 features built-in speakers for kiosk application to display multimedia content program. It also supports WLAN module (optional) antenna for wireless network connectivity.

Powerful computing: Intel® 3rd Generation Core i7/i5/i3/Celeron processors

P1197E-861 features Intel[®] 3rd&2nd Core[™] i7/i5/i3 series, Pentium[®] and Celeron[®] processors and Intel[®] H61 chipset which deliver high computing performance capability. Ivy Bridge CPU offers reliable and stable performance and rugged environment.

Specifications 1.2

Main CPU Board

- CPU •
 - Intel[®] 3rd&2nd Core[™] i7/i5/i3 series, Pentium[®] and Celeron[®] processors
- System Chipset •
 - Intel[®] H61 Express Chipset .
- System Memory •
 - 2 x 204-pin DDR3 SO-DIMM socket
 - Supporting 8GB per DIMM, maximum memory size up to 16GB
- BIOS •
 - America Megatrends BIOS (AMI UEFI BIOS)

I/O System

- Standard I/O
 - 1 x RS-232/422/485 (COM1), 1 x RS-232 with 5V/12V(COM3), 3 x RS-232(COM4)
 - 2 x USB 2.0 (front)
 6 x USB 2.0 (back)

 - 1 x DVI-D
 - 1 x VGA
- Ethernet
 - 2 x RJ45 for Giga Ethernet
- Audio
 - 1 x Line-out
 - 1 x Mic-in

Expansion

- 1 x Wireless Module(optional)
- 1 x PCIe x 4 slots Riser card (1 x PCI slots Riser card optional)
- Storage
 - 2 x 2.5" SATA HDD
- Power connector
 - 1 x AC plug

System Specification

- 19" SXGA(1280 X 1024)LCD •
- 5 wired resistive Touch •
- IP65/NEMA4 aluminum front bezel •
- IP65 aluminum front bezel •
- **Net Weight** •
 - 8Kgs (17.64 lb)
- Dimension (Main Body Size)
 - 482 x 94.7 x 380mm
- Operation Temperature
 - 0°C to 45°C
- Relative Humidity
 - 10% to 95% @ 40°C, Non-Condensing
- Power Input •
 - 100~240VAC power connector

NOTE: 1. All specifications and images are subject to change without notice. 2. The speed of expansion card will depend on your CPU.

- - 3. On-Screen Display Combo keys: Pressing VOL+ & VOL- means Audio mute.

1.3 Dimensions and Outlines

The following diagrams show the dimensions and outlines of P1197E-861.



1.4 I/O Outlets

Please refer to the following illustration for I/O locations of the P1197E-861.



1.5 Packing List

When you receive the P1197E-861, the bundled package should contain the following items:

- P1197E-861 unit x 1
- Driver CD x1
- Panel mount kit x 9
- Wall/VESA mount kit x 1 (optional)
- Power cord x 1

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

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Chapter 2 Hardware and Installation

The P1197E-861 provides rich I/O ports and flexible expansions for you to meet different demand. The chapter will show you how to install the hardware. It includes:

- Open back cover
- Serial Port Interface
- Ethernet
- Mounting Method
- Hard disk
- DRAM
- CPU
- CPU Cooler
- Wireless LAN Module(optional)
- Add-on Card
- Optical Drive

2.1 Open back cover

This section tells users how to open back cover. Please follow the steps below.

Step 1 Unscrew 3 screws on the back cover and push to the right side. Please refer the photo below.



Step 2 Remove the back cover and unscrew 2 screws.



2.2 Serial Ports Interface

The P1197E-861 has four serial ports. COM1 is RS-232/422/485, while COM2, COM3 and COM4 are RS-232.

2.2.1 COM1&COM2 Connector

The COM1&COM2 are double-deck DB-9 connectors. The upper connector is for COM1 and the lower connector is for COM2.

Pin	Pin	Signal	
1	10	Data Carrier Detect (DCD)	
2	11	Receive Data (RXD)	
3	12	Transmit Data (TXD)	
4	13	Data Terminal Ready (DTR)	
5	14	Ground (GND)	
6	15	Data Set Ready (DSR)	
7	16	Request to Send (RTS)	
8	17	Clear to Send (CTS)	
9	18	Ring Indicator (RI)	



2.2.2 COM3 & COM4 Connectors

The COM3 and COM4 interfaces are available through COM34 and COM56, respectively.

Pin	Signal	Pin	Signal
1	DCD#	2	DSR#
3	RXD	4	RTS#
5	TXD	6	CTS#
7	DTR#	8	RI#
9	GND	10	GND
11	DCD#	12	DSR#
13	RXD	14	RTS#
15	TXD	16	CTS#
17	DTR#	18	RI#
19	GND	20	GND

2.2.3 Jumper and Switch Setting

COM1 KBMS USB Audio1 LAN2USB34 LAN1USB12 COM2 0 00000 С 0000 0000 00000 0000 00000 00000 VGA1 С FPAUD1 SelectCOM 00 00 DVI 0 JLVDS PCIEX4 USB78 JDIO 00000 DOCCO JBKL 0000 SATA1 COM56 SATA2 COM34 JCMO JLVDS BKL1 MINI-PCIE SATA3 O SPI1 0000 11

Jumpers and Connectors Layout

Jumper Settings

Jumper is a small component consisting of jumper clip and jumper pins. Install jumper clip on 2 jumper pins to close. And remove jumper clip from 2 jumper pins to open. The following illustration shows how to set up jumper.

jumper clip



C

pin 1-2 close

all open











Select COM for RS-232/422/485

Pin	Signal	Pin	Signal
1	UART1_RXD	2	COM1_485_RXD
3	UART1_RXD	4	COM1_422_RXD
5	UART1_RXD	6	COM1_232_RXD
7	COM1_BUF_DCD#	8	COM1_BUF_TXD
9	COM1_DCD#	10	COM1_TXD
11	COM1_TXD422-	12	COM1_RXD422+
13	COM1_BUF_RXD	14	COM1_BUF_ DTR#
15	COM1_RXD	16	COM1_DTR#
17	COM1_TXD422+	18	COM1_RXD422-





2.3 Ethernet

The P1197E-861 is equipped with two high performance plug and play Ethernet interfaces (RJ-45). Connection can be established by plugging one end of the Ethernet cable into this RJ-45 connector and the other end to a 1000/100/10-Base-T hub.

Each of these ports allows Gigabit connection to a Local Area Network (LAN) through a network hub. Refer to the table below for the LAN port LED indications.

Į	SPEED LED	ACT / LINK LED	
Status Description		Status	Description
OFF	10Mbps connection	OFF	No link
Orange	100Mbps connection	Green	Link
Green	1Gbps connection	Blinking	Data activity



2.4 Mountings: Panel / Wall / Rack / Desktop / VESA

There are 5 application options for the P1197E-861, including Panel/Wall/Rack/ Desktop/VESA mounting ways.

2.4.1 VESA-ARM / Wall-Mount / Desktop-mount

The P1197E-861 provides VESA mount: 75x75 mm or 100x100mm. Screw six screws to fix the kit in the back chassis.



▲VESA/ Wall mount bracket



▲ Putting the bracket on the back of system



▲ Fixing the bracket by four screws on the left and right side.

2.4.2 Panel-mount Kit Assembly

The P1197E-861 is designed for panel mount application. To mount the P1197E-861, the standard set of mounting kit (included in the system packaging) is needed.



2.4.3 Rack-mount Kit Assembly

The P1197E-861 is designed for rack mount application.



Step 1 Remove 8 seal pads in front panel.Step 2 P1197E-861 could mount directly to standard 19" industrial rack.

2.5 HDD Installation

The P1197E-861 provides a convenient Hard Disk Drive (HDD) bracket for users to install 2 x 2.5" SATA HDD. Please follow the steps:

Step 1 Unscrew 1 screws to take off the HDD door.



Step 2 Unscrew two screws and pull the HDD out directly.



2.6 DRAM Installation

The P1197E-861 provides two 204-pin DDR3 SO-DIMM socket that support system memory up to 16GB. Please follow steps below to install the memory modules:

Step 1 Refer to section 2.1 to open the back cover and find out DIMM socket on mainboard (MANO871).



Step 2 Push the latches on each side of the SO-DIMM slot down.



Step 3 Install the SO-DIMM module into the slot and press it firmly down until it seats correctly.



Step 4 The slot latches are levered upwards and latch on to the edges of the SO-DIMM.



2.7 CPU Installation

The P1197E-861 has an LGA1155 socket supporting Intel[®] 3rd&2nd Core[™] i7/i5/i3 series, Pentium[®] and Celeron[®] processors and provides high computing performance for users.

Step 1 Press the hook of lever down with your thumb and pull it to the right side to release it from retention tab.



Step 2 Lift the tail of the load lever and rotate the load plate to fully open position. And, remove the protective plastic cover.



Step 3 CPU aims at the socket and places the package carefully into the socket by purely vertical motion.



NOTE Never touch fragile socket contacts to avoid damage and do not touch processor sensitive contacts at any time during installation.

2.8 CPU Cooler Installation

Step 1 Making sure your CPU settled correctly on the socket.



Step 2 Screw the cooling fan supporting base onto the CPU socket on the Motherboard and make sure the CPU fan is plugged to the CPU fan connector. And, Connect the CPU cooler power connector to the FAN1 connector



2.9 Wireless LAN Module Installation (optional)

The P1197E-861 provides one wireless LAN module to install. When installing the wireless LAN module, refer to the following instructions and illustration:

Step 1 Refer to section 2.1 to open the back cover and find out the wireless LAN module located.



Step 2 Fixing the wireless LAN module by 2 screws.



Step 3 Plug in USB cable to the connector of WIFI module. And, find the built-in Antenna cable and connect it wireless LAN card.



Step 4 Lift the rubber stopper from the top of back cover.



Step 5 Install the antenna on the antenna connector.



2.10 Add-on Card Installation

The P1197E-861 provides a riser card (PCIex4 interface) for 1 x PCIe x 4 or 1 x PCI slots expansion. The riser card assembly can accommodate both half-size expansion cards. To install the riser card, refer to the following figure and instructions below:

Step 1 Refer section 2.1 to open the back cover and unscrew 2 screws, and then remove the riser card fix kit and plate.



Step 2 Insert the riser card in the socket firmly until it is completely seated. And, insert the add-on card you need to the socket of riser card.



Step 3 Secure the metal bracket of the card to the system case with four screws. Installations complete.





NOTE: Please use the standard size of add-on card to avoid conflicting the mechanism.

2.11 Optical Drive Installation (optional)

The P1157E-871 offers a convenient drive bay module for users to install optical drive. When installing the optical drive, refer to the following instructions and illustration:

Step 1 Refer section 2.1 to open the back cover.

Step 2 Unscrew four screws to remove the plate from the right side.



Step 3 Fixing the optical drive on the bracket.



▲ optical drive Kit



 \blacktriangle Fixing optical drive by 4 screws.

Step 4 Fixing the optical drive kit on the chassis by 4 screws.



Step 5 Plug the power and SATA cables to connectors. Installation completes.



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Chapter 3 AMI BIOS Setup Utility

The AMI UEFI BIOS provides users with a built-in setup program to modify basic system configuration. All configured parameters are stored in a flash chip to save the setup information whenever the power is turned off. This chapter provides users with detailed description about 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 key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Advanced and Chipset menus.

It is strongly recommended that you should avoid changing the chipset's defaults. Both AMI and your system manufacturer have carefully set up these defaults that provide the best performance and reliability.

3.2 Navigation Keys

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>, <F2>, <Enter>, <ESC>, <Arrow> keys, and so on.

S) ...

NOTE:	Some of the navigation keys differ from one screen to another.
-------	--

Hot Keys Description	
→← Left/Right	The Left and Right < Arrow> keys allow you to select a setup screen.
∱√ 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 we 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>
F2	The <f2> key allows you to Load Previous Values.</f2>
F3	The <f3> key allows you to Load Optimized Defaults.</f3>
F4	The <f4> key allows you to save any changes you have made and exit Setup. Press the <f4> key to save your changes.</f4></f4>
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. System Time/Date can be set up as described below. The Main BIOS setup screen is shown below.



BIOS Information

Display the auto-detected BIOS information.

System Date/Time

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 also 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:

- ACPI Settings
- CPU Configuration
- SATA Configuration
- PCH-FW Configuration
- USB Configuration
- Second Super IO Configuration
- Super IO Configuration
- ► H/W Monitor
- Option Rom Policy
- CPU PPM Configuration

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





Take caution when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction.

• ACPI Settings

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

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Advanced				
ACPI Settings		Select ACPI sleep state the system will enter when the		
ACPI Sleep State		SUSPEND button is pressed.		
S3 Video Repost	[Disabled]			
Resume On RTC Alarm	[Disabled]			
Wake On PCIE	[Enabled]			
		→+: Select Screen		
		↑↓: Select Item		
		Enter: Select		
		+/-: Change Opt.		
		F1: General Help F2: Previous Values		
		F3: Optimized Defaults		
		F4: Save & Exit		
		ESC: Exit		
Version 2.14.12	19. Copyright (C) 2011 American M	egatrends, Inc.		

ACPI Sleep State

Select the highest ACPI sleep state the system will enter when the suspend button is pressed. Configuration options are Suspend Disabled, S1 only (CPU Stop Clock), and S3 only (Suspend to RAM).

To correctly support wake by use of USB from the S3 system power state, please refer to the following Microsoft's link:

http://support.microsoft.com/kb/841858/en-us

S3 Video Repost

Enable or disable video repost.

Resume On RTC Alarm

Enable or disable system wake on alarm even. When enabled, system will wake upon the hr/min/sec specified.

Wake On PCIE#

Enable or disable PCIE to generate a wake event.

• CPU Configuration

This screen shows the CPU information.

Aptio Setup Utility Advanced	- Copyright (C) 2011 Ame	rican Megatrends, Inc.
CPU Configuration		Number of cores to enable in each processor package.
Genutine Inter(K) CPU @ 2.00GH2 CPU Signature Microcode Patch Max CPU Speed Min CPU Speed CPU Speed Processor Cores Intel HT Technology Intel VT-x Technology Intel SMX Technology	306a4 7 2000 MHz 1600 MHz 2000 MHz 4 Not Supported Supported Supported	
64-bit L1 Data Cache L1 Code Cache L2 Cache L3 Cache Active Processor Cores Intel Virtualization Technology	Supported 32 kB x 4 32 kB x 4 256 kB x 4 6144 kB [A11] [Disabled]	<pre> ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.1219.	Convright (C) 2011 Ameri	ican Megatrends. Thc.

Active Processor Cores

Allow users to set how many processor cores should be active.

Intel Virtualization Technology

This item allows a hardware platform to run multiple operating systems separately and simultaneously, enabling one system to virtually function as several systems.

NOTE: This functions will depend on your CPU supported or not.

• SATA Configuration

In this Configuration menu, you can see the currently installed hardware in the SATA ports. During system boot up, the BIOS automatically detects the presence of SATA devices.

Aptio Advanced	Setup Utility - Copyright (C) 2011 American I	Megatrends, Inc.
SATA Controller(s) SATA Mode Selection	[Enabled] [IDE]	Enable or disable SATA Device.
mSATA Port Serial ATA Port 1 Serial ATA Port 2 Serial ATA Port 3	Empty Empty Empty Empty	
		<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help</pre>
		F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Vers	ion 2.14.1219. Copyright (C) 2011 American Me	gatrends, Inc.

SATA Controller(s)

Enable or disable SATA device.

SATA Mode Selection

Determine how SATA controller(s) operate. Operation mode options are: IDE Mode, AHCI Mode and RAID Mode.

• PCH-FW Configuration

This screen displays Management Engine (ME) Firmware information.



• 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.

USB Configuration		Enables Legacy USB support. AUTO option disables legacy
USB Devices: 1 Keyboard, 2 Hubs		support if no USB devices are connected. DISABLE option will keep USB devices available
Legacy USB Support		only for EFI apprications.
		<pre>→+: Select Screen ↑↓: Select Item Enter: Select</pre>
		+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit
Version 2.14.1	219 Copyright (C) 2011 Am	ESC: Exit

USB Devices

Display all detected USB devices.

Legacy USB Support

Use this item to enable or disable support for USB device on legacy operating system. The default setting is Enabled. Auto option disables legacy support if no USB devices are connected. Disable option will keep USB devices available only for EFI applications.

• Second Super IO Configuration

You can use this screen to select options for the Second Super IO 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.

Aptio Setup Utility - Advanced	Copyright (C) 2011 Americ	can Megatrends, Inc.
Second Super IO Configuration		Set Parameters of Serial Port 3 (COMC).
Super IO Chip > Serial Port 3 Configuration > Serial Port 4 Configuration > Serial Port 5 Configuration > Serial Port 6 Configuration	Fintek F81216	
		<pre> ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.1219. Co	opyright (C) 2011 America	n Megatrends, Inc.

Use these items to set parameters of serial port 3~6.

Serial Port 3~6 Configuration

• Super IO Configuration

You can use this screen to select options for the Super IO 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 " \blacktriangleright ", please press <Enter> for more options.

Aptio Setup Utility · Advanced	- Copyright (C) 2011 Amer	ican Megatrends, Inc.
Super IO Configuration		Set Parameters of Serial Port
Super IO Chip > Serial Port 1 Configuration > Serial Port 2 Configuration > Parallel Port Configuration	NCT6776F	
Watch Dog Timer Chassis Opened Warning	[Disabled] [Disabled]	
		<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.1219.	Copyright (C) 2011 Americ	can Megatrends. Inc.

Serial Port 1~2 Configuration

Use these items to set parameters of serial port 1~2.

Parallel Port Configuration

Use this item to set parameters of parallel port.

Watch Dog Timer

Enable or disable watchdog timer function.

Chassis Opened Warning

Enable or disable chassis opened warning setting.

• H/W Monitor

Use this screen for Smart Fan configuration and hardware health status monitoring.

Aptio Setup Advanced	Utility - Copyright (C) 2011 Ame	rican Megatrends, Inc.
Aptio Setup Advanced Pc Health Status > Smart Fan System temperature CPU temperature CPU Fan Speed System Fan Speed VCORE +12V +5V SVSB 3VCC 3VSB VBAT	Utility - Copyright (C) 2011 Ame : +35 C : +20 C : 2518 RPM : N/A : +0.984 V : +11.904 V : +5.022 V : +5.120 V : +3.344 V : +3.296 V : +2.992 V	rican Megatrends, Inc. Smart Fan function page. →+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F3: Optimized & Evit
		F4: Save & Exit ESC: Exit

This screen displays the temperature of system and CPU, cooling fan speed in RPM and system voltages (VCORE, +12V, +5V, 5VSB, etc).

Smart Fan

This option allows users to configure Smart Fan function.

• Option Rom Policy

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Advanced		
Boot option filter Launch PXE OpROM policy Launch Storage OpROM policy	[UEFI and Legacy] [Disabled] [Enabled]	This option controls what devices system can boot to.
		<pre>++: Select Screen \$ 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.1219	. Copyright (C) 2011 America	IN Megatrends, Inc.

Boot Option Filter

This option controls what devices system can boot to.

Launch PXE OpROM policy Enable or disable boot options for legacy network devices.

Launch Storage OpROM policy Control the execution of UEFI and legacy storage OpROM.

• CPU PPM Configuration

Use this screen for CPU PPM configuration.

Aptio Setup Uti Advanced	lity - Copyright (C) 2011 Am	erican Megatrends, Inc.
CPU PPM Configuration		Enable/Disable Intel SpeedStep
EIST Turbo Mode CPU C3 Report CPU C6 Report	[Enabled] [Enabled] [Enabled] [Enabled]	
		<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
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EIST

Enable or disable Intel[®] SpeedStep. When enabled, CPU speed is controlled by the operating system. When disabled, CPU runs at its default speed.

Turbo Mode

This item is for enabling or disabling turbo mode. When enabled, it allows processor cores to run faster than marked frequency under certain conditions.

CPU C3 Report

Enable or disable CPU C3 report to the operating system.

CPU C6 Report

Enable or disable CPU C6 report to the operating system.

NOTE:This functions will depend on your CPU supported or not.

3.5 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:

- PCH-IO Configuration
- System Agent (SA) Configuration

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

Main Advanced Chipset Boot Save & Exit	american megatrends, Inc.
▶ PCH-IO Configuration ▶ System Agent (SA) Configuration	PCH Parameters
	<pre>++: Select Screen \$ fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

• PCH-IO Configuration

This screen allows users to set PCH parameters.

Aptio Setup U Chipset	tility - Copyright (C) 2011 Am	erican Megatrends, Inc.
Intel PCH RC Version Intel PCH SKU Name Intel PCH Rev ID > USB Configuration	1.1.0.0 H61 05/B3	USB Configuration settings.
LANI Controller LAN2 Controller Mini-PCIe Speed Restore AC Power Loss	[Enabled] [Enabled] [Auto] [Power Off]	
		<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit</pre>
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USB Configuration

USB configuration settings.

PCH Azalia Configuration

PCH Azalia device configuration settings.

LAN1 Controller

Enable or disable LAN1 controller.

LAN2 Controller

Enable or disable LAN2 controller.

Mini-PCle Speed

Allow you to select mini PCI-Express speed.

Restore AC Power Loss

Set the system power status when power returns from a power failure situation. The system power status options are Power Off, Power On and Last State.

• PCH USB Configuration

Aptio Setup Utility - Chipset	- Copyright (C) 2011 America	n Megatrends, Inc.
USB Configuration EHCT1 EHCT2 USB Ports Per-Port Disable Control	[Enabled] [Enabled] [Disabled]	Control the USB EHCI (USB 2.0) functions. One EHCI controller must always be enabled.
		<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.14.1219.	Copyright (C) 2011 American	Megatrends, Inc.

EHCI1/EHCI2

Enable or disable the EHCI controller.

USB Ports Per-Port Disable Control

Enable or disable each USB port individually.

• PCH Azalia Configuration

Aptic	9 Setup Utility - Copyright (C) 20 Chipset	11 American Megatrends, Inc.
PCH Azalia Configur	ation	Control Detection of the
Azalia		Azalia device. Disabled = Azalia will be unconditionally disabled Enabled = Azalia will be unconditionally Enabled Auto = Azalia will be enabled if present, disabled otherwise →+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit ESC: Exit
Ver	sion 2.14.1219. Copyright (C) 2011	. American Megatrends, Inc.

Azalia

Control detection of the Azalia device. Configuration options are Disabled, Enabled and Auto.

• System Agent (SA) Configuration

This screen shows System Agent information and provides function for specifying related parameters. For items marked with "▶", please press <Enter> for more options.

Aptio Setup Util Chipset	ity - Copyright (C) 2011 A	xmerican Megatrends, Inc.
System Agent Bridge Name System Agent RC Version VT-d Capability	IvyBridge 1.1.0.0 Supported	Check to enable VT-d function on MCH.
VT-d ► Graphics Configuration	[Enabled]	
 NB PCIE Configuration Memory Configuration 		
		<pre>→+: Select Screen †↓: Select Item</pre>
		Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values E3: Optimized Defaults
		F4: Save & Exit ESC: Exit
Version 2.14.12	219. Copyright (C) 2011 Am	erican Megatrends, Inc.

VT-d

Enable or disable Intel[®] chipset virtualization technology for directed I/O. VT-d can help end users improve security and reliability of the systems and also improve performance of I/O devices in virtualized environment.

• Graphics Configuration

Graphics Configuration Select which of IGFX/PEG/PCI Primary Display [Auto] Internal Graphics [Auto] DVMT Pre-Allocated [64M] DVMT Total Gfx Mem [256M] > LCD Control Image: Select Screen #+: Select Screen 1: Select Item Enter: Select F: Select Item Estimate Item Estimate Item Set Item F: Set Item <t< th=""><th>Aptio Se Chi</th><th>tup Utility - Copyright (C) 2011 A ipset</th><th>merican Megatrends, Inc.</th></t<>	Aptio Se Chi	tup Utility - Copyright (C) 2011 A ipset	merican Megatrends, Inc.
Primary Display [Auto] Internal Graphics [Auto] DVMT Pre-Allocated [64M] DVMT Total Gfx Mem [256M] > LCD Control	Graphics Configuration		Select which of IGFX/PEG/PCI Graphics device should be
Internal Graphics [Auto] DVMT Pre-Allocated [64M] DVMT Total Gfx Mem [256M] > LCD Control -+: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit	Primary Display		Primary Display Or select SG
DVMT Pre-Allocated [64M] DVMT Total Gfx Mem [256M] > LCD Control ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit	Internal Graphics	[Auto]	for Switchable Gfx.
DVMT Total Gfx Mem [256M] LCD Control -+-: Select Screen 11: Select Item [1: Select Item Enter: Select +-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit ESC: Exit	DVMT Pre-Allocated	[64M]	
<pre>>LCD Control ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>	DVMT Total Gfx Mem	[256M]	
<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>	►LCD Control		
<pre> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>			→+: Select Screen
Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit			11: Select Item
+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit			Enter: Select
F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit			+/-: Change Opt.
F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit			F1: General Help
F3: Optimized Defaults F4: Save & Exit ESC: Exit			F2: Previous Values
F4: Save & Exit ESC: Exit			F3: Optimized Defaults
ESC: Exit			F4: Save & Exit
			ESC: Exit
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Primary Display

Allow you to select which graphics controller to use as the primary boot device.

Internal Graphics

Enable or disable IGD.

DVMT Pre-Allocated

Select DVMT pre-allocated memory size.

DVMT Total Gfx Mem

Select DVMT total memory size.

• NB PCIe Configuration

Aptio Setup Utility Chipset	- Copyright (C) 2011 Am	erican Megatrends, Inc.
NB PCIE Configuration PEG0 - Gen X PEG0 ASPM Enable PEG Detect Non-Compliance Device	[Auto] [Auto] [Auto] [Disabled]	Configure PEG0 B0:D1:F0 Gen1-Gen3
		<pre></pre>
Version 2.14.1219.	Copyright (C) 2011 Ame	rican Megatrends, Inc.

PEG0 – Gen X

Select PEG0 speed.

PEG0 ASPM

Control ASPM support for the PEG device.

Enable PEG

Enable or disable PEG always.

Detect Non-Compliance Device

Enable or disable the detection of a non-compliance PCI-Express device in PEG.

• **Memory Configuration** This screen displays system memory information.

Aptio Setup Utility - <mark>Chipset</mark>	Copyright (C) 2011 American	Megatrends, Inc.
Memory Information		
Memory RC Version Memory Frequency Total Memory DIMMA1 DIMMB1 CAS Latency (tCL) Minimum delay time CAS to RAS (tRCDmin) Row Precharge (tRPmin) Active to Precharge (tRASmin) XMP Profile 1 XMP Profile 2	1.5.0.0 1067 Mhz 1024 MB (DDR3) 1024 MB (DDR3) Not Present 7 7 7 20 Not Supported Not Supported	<pre>→+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Non-ton 2 14 1210	any minimum (c) 2011 amount and a	tenessie tenes

3.6 Boot Menu

The Boot menu allows users to change boot options of the system.

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc.		
Main Advanced Chipset	Boot Save & Exit	
Boot Configuration		Number of seconds to wait for
Setup Prompt Timeout	1	setup activation key.
Bootup Numlock State	[On]	65535(0xFFFF) means indefinite waiting.
Quiet Boot	[Disabled]	
Boot Option Priorities		
		→+: Select Screen
		↑↓: Select Item
		Enter: Select
		+/-: Change Opt.
		F1: General Help
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
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Setup Prompt Timeout

Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Bootup NumLock State

Use this item to select the power-on state for the keyboard NumLock.

Quiet Boot

Select to display either POST output messages or a splash screen during boot-up.

Boot Option Priorities

These are settings for boot priority. Specify the boot device priority sequence from the available devices.

3.7 Save & Exit Menu

The Save & Exit menu allows users to load your system configuration with optimal or fail-safe default values.

Aptio Setup Utility - Copyright (C) 2011 American	Megatrends, Inc.
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Restore Defaults Boot Override	Exit system setup after saving the changes.
	<pre> ++: Select Screen \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>

Save Changes and Exit

When you have completed the system configuration changes, select this option to leave Setup and return to Main Menu. Select Save Changes and Exit from the Save & Exit menu and press <Enter>. Select Yes to save changes and exit.

Discard Changes and Exit

Select this option to quit Setup without making any permanent changes to the system configuration and return to Main Menu. Select Discard Changes and Exit from the Save & Exit menu and press <Enter>. Select Yes to discard changes and exit.

Save Changes and Reset

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 Reset from the Save & Exit menu and press <Enter>. Select Yes to save changes and reset.

Restore Defaults

It automatically sets all Setup options to a complete set of default settings when you select this option. Select Restore Defaults from the Save & Exit menu and press <Enter>.

Boot Override

Select a drive to immediately boot that device regardless of the current boot order.

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Chapter 4 Drivers Installation

4.1 System

P1197E-861 supports Windows 7 and WES 7. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

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



Step 2 Select all files and follow the installing procedure.

4.2 Touch Screen

The P1197E-861 uses the 5-wire analog resistive. There are the specification and driver installation which are listed below.

• Specification

Touch Screen	5-wire Analog Resistive type
Touch Screen Controller	PenMount 6500 USB Touch Screen Controller IC
Communications	USB interface
Baud Rate	19200 baud rate fixed
Resolution	1280 X 1024

• Driver Installation- Windows 7

The P1197E-861 provides a touch screen driver that users can install it under the operating system Windows 7. To facilitate installation of the touch screen driver, you should read the instructions in this chapter carefully before you attempt installation.

Step 1 Insert Driver CD and follow the path to select the "\Drivers\Step 6. Touch".



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



Calbrate Setting Edge Componentiation About Calbrate Standard Calbration Calbration data Advanced Calbrates

Step 4 Select the "Standard Calibrate" tab.

Step 5 Calibrations:

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.

Ŷ.	
	Touch the red square.



4.3 Embedded O.S.

The P1197E-861 provides the Windows 7 Embedded. The O.S. is supported devices which are listed below.

• WES 7

Here are supported onboard devices:

- Onboard Multi I/O
- SATA HDD
- USB
- PS2 Keyboard and mouse
- CRT/LCD display
- 10/100/1000 base-T Ethernet
- Onboard Audio
- Touch Screen

PenMount Touch screen

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

- 1. 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.

Appendix A Watchdog Timer

About Watchdog Timer

After the system stops working for a while, it can be auto-reset by the watchdog timer. The integrated watchdog timer can be set up in the system reset mode by program

WatchDog sample code

#define NCT6776F_CONFIG_INDEX	0x2e
#define NCT6776F_CONFIG_DATA	0x2f
#define NCT6776F_CONFIG_MODE_ENTER_VALUE	0x87
#define NCT6776F_CONFIG_MODE_EXIT_VALUE	0xAA
#define NCT6776F_LDN_SEL_REGISTER	0x07
#define NCT6776F_ACTIVATE_REGISTER	0x30
#define NCT6776F_LDN_GPIO3	0x09
#define NCT6776F_LDN_WDT1	0x08

#ifdef Oem_NCT6776F_WDT_PRESENT #if Oem_NCT6776F_WDT_PRESENT

UINT8 Data8=0;

IoWrite8 (NCT6776F_CONFIG_INDEX, NCT6776F_CONFIG_MODE_ENTER_VALUE); IoWrite8 (NCT6776F_CONFIG_INDEX, NCT6776F_CONFIG_MODE_ENTER_VALUE);

IoWrite8 (NCT6776F_CONFIG_INDEX, 0x2B); // Pin80 function selection to GP34 Data8 = IoRead8(NCT6776F_CONFIG_DATA) | 0x10; IoWrite8 (NCT6776F_CONFIG_DATA, Data8);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_LDN_SEL_REGISTER); //LDN 0x09 IoWrite8 (NCT6776F_CONFIG_DATA , NCT6776F_LDN_GPIO3);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_ACTIVATE_REGISTER); //CR 30h Data8 = IoRead8(NCT6776F_CONFIG_DATA) | 0x08;

IoWrite8 (NCT6776F_CONFIG_DATA, Data8);

IoWrite8 (NCT6776F_CONFIG_INDEX , 0xE4); //Set GP34 to output mode Data8 = IoRead8(NCT6776F_CONFIG_DATA) & 0xEF;

loWrite8 (NCT6776F_CONFIG_DATA , Data8);

IoWrite8 (NCT6776F_CONFIG_INDEX, 0xE5); //Set GP34 to output High Data8 = IoRead8(NCT6776F_CONFIG_DATA) | 0x10; IoWrite8 (NCT6776F_CONFIG_DATA, Data8); IoWrite8 (NCT6776F_CONFIG_INDEX, 0xEA); // selection Pin 34 to WDTO Data8 = IoRead8(NCT6776F_CONFIG_DATA) | 0x10; IoWrite8 (NCT6776F_CONFIG_DATA, Data8);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_LDN_SEL_REGISTER); //LDN 0x08

IoWrite8 (NCT6776F_CONFIG_DATA, NCT6776F_LDN_WDT1);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_ACTIVATE_REGISTER); //CR 30h Data8 = IoRead8(NCT6776F_CONFIG_DATA) | gSetup.WDT_Control; IoWrite8 (NCT6776F_CONFIG_DATA , Data8);

IoWrite8(NCT6776F_CONFIG_INDEX, 0xF5); //Watchdog Timer: CR F5h Bit3

Data8 = IoRead8(NCT6776F_CONFIG_DATA) | gSetup.WDT_CountMode; IoWrite8 (NCT6776F_CONFIG_DATA , Data8);

IoWrite8(NCT6776F_CONFIG_INDEX, 0xF6); //Watchdog Timer Counter Register IoWrite8(NCT6776F_CONFIG_DATA, gSetup.WDT_TimeOut);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_CONFIG_MODE_EXIT_VALUE); #endif // #if Oem_NCT6776F_WDT_PRESENT #endif // #ifdef Oem_NCT6776F_WDT_PRESENT

Appendix B Digital I/O

SIO		Function
Pin93	GP70	SIO_GPIO0
Pin92	GP71	SIO_GPIO1
Pin91	GP72	SIO_GPIO2
Pin90	GP73	SIO_GPIO3
Pin89	GP74	SIO_GPIO4
Pin88	GP75	SIO_GPIO5
Pin87	GP76	SIO_GPIO6
Pin86	GP77	SIO_GPIO7

Using Digital Output Function

DIO sample code

#define NCT6776F_CONFIG_INDEX	0x2e
#define NCT6776F_CONFIG_DATA	0x2f
#define NCT6776F_CONFIG_MODE_ENTER_VALUE	0x87
#define NCT6776F_CONFIG_MODE_EXIT_VALUE	0xAA
#define NCT6776F_LDN_SEL_REGISTER	0x07
#define NCT6776F_ACTIVATE_REGISTER	0x30
#define NCT6776F_LDN_GPIO1	0x07
#define NCT6776F_LDN_GPIO3	0x09

#ifdef Oem_NCT6776F_Digital_IO_PRESENT #if Oem_NCT6776F_Digital_IO_PRESENT

UINT8 Data8=0;

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_CONFIG_MODE_ENTER_VALUE); IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_CONFIG_MODE_ENTER_VALUE);

IoWrite8 (NCT6776F_CONFIG_INDEX , 0x27); // CR27 bit6, bit7 need to set 1, GP70 to GP77 Data8 = IoRead8(NCT6776F_CONFIG_DATA) | 0xC0; IoWrite8 (NCT6776F_CONFIG_DATA , Data8);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_LDN_SEL_REGISTER); IoWrite8 (NCT6776F_CONFIG_DATA , NCT6776F_LDN_GPIO3);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_ACTIVATE_REGISTER); Data8 = IoRead8(NCT6776F_CONFIG_DATA) | 0x80; //Active GPI07 IoWrite8 (NCT6776F_CONFIG_DATA , Data8);

loWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_LDN_SEL_REGISTER); loWrite8 (NCT6776F_CONFIG_DATA , NCT6776F_LDN_GPIO1); IoWrite8(NCT6776F_CONFIG_INDEX, 0xE0); IoWrite8(NCT6776F_CONFIG_DATA, 0xFF);

IoWrite8 (NCT6776F_CONFIG_INDEX , NCT6776F_CONFIG_MODE_EXIT_VALUE); #endif // #if Oem_NCT6776F_Digital_IO_PRESENT #endif //#ifdef Oem_NCT6776F_Digital_IO_PRESENT