



***AXIOMTEK***

**GOT3156T-834**

All-in-One  
15" XGA TFT Fanless  
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 GOT3156T-834 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 GOT3156T-834 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 GOT3156T-834. Chapter 1 includes the following sections:



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

### 1.1 General Description

The GOT3156T-834 adopts a 15-inch XGA TFT LCD with 400nits brightness and an Intel® Processor E3827 (1M Cache, 1.75 GHz) to provide excellent computing performance and thermal resistance. This fanless platform is especially designed for operating under heavy-duty environment including steel refinery, oil pipe, machine maker operating systems and many more. Having below abilities makes GOT3156T-834 surely a most robust and cost-effective solution.

#### Wide Operating Temperature Range

GOT3156T-834 features a technology of wide operating temperature range which allows it to work between -20°C to +55°C. It incorporates compact ID and fanless cooling system with a low power Intel® Processor E3827, making the platform a power-efficient solution.

#### Reliable and Stable Design

The GOT3156T-834 adopts a fanless cooling system, which makes it especially suitable for vibration-heavy environments, best for the transportation and industrial machinery markets. For high capacity storage requirement, GOT3156T-834 can work under 2.0G (10 ~ 500Hz, random for CFast™) in operation mode with a patent of anti-vibration design. The patent improves the system reliability and sustainability.

### **WLAN Antenna Supported (optional)**

GOT3156T-834 has 2 PCI Express Mini Card slots for optional add-on such as wireless LAN card for 802.11 a/b/g/n connections, 3G/GPRS application, and more. These slots also provide 3 optional fixed rotational WLAN/3G antennas for wireless network connection.

### **More Features**

GOT3156T-834 utilizes one 204-pin DDR3L SO-DIMM system memory max. up to 8GB, one SATA HDD and one CFast™ or mSATA. It provides over-current protection-fuse and a full set of I/O including RS-232/422/485, USB 2.0, USB 3.0, audio (line-out), and Gigabit Ethernet. Additionally, this slim unit supports panel mount, wall mount (optional), VESA mount and desktop stand (optional).

## **1.2 Specifications**

### **Main CPU Board**

- **CPU**
  - Intel® Processor E3827 (1M Cache, 1.75 GHz) onboard
- **System Memory**
  - One 204-pin DDR3L SO-DIMM socket
  - Maximum memory up to 8GB
- **BIOS**
  - America Megatrends BIOS

### **I/O System**

- **Standard I/O**
  - 4 x RS-232/422/485
  - 2 x USB 2.0
  - 2 x USB 3.0
  - 1 x VGA output  
(Duplicated display mode: max resolution is up to 1024 x 768, Extended display mode: max resolution is up to 1920 x 1080)
- **Ethernet**
  - 2 x RJ45 for Giga Ethernet
- **Audio**
  - 1x Line-out
- **Expansion**
  - 1 x SATA 2
  - 1 x Mini-card slot (w/SIM slot)
  - 1 x Mini-card slot (supports mSATA, optional)
- **Storage**
  - 1 x 2.5" HDD/SSD bay
  - 1 x CFast™ slot or mSATA
- **Power connector**
  - Phoenix power connector



### System Specification

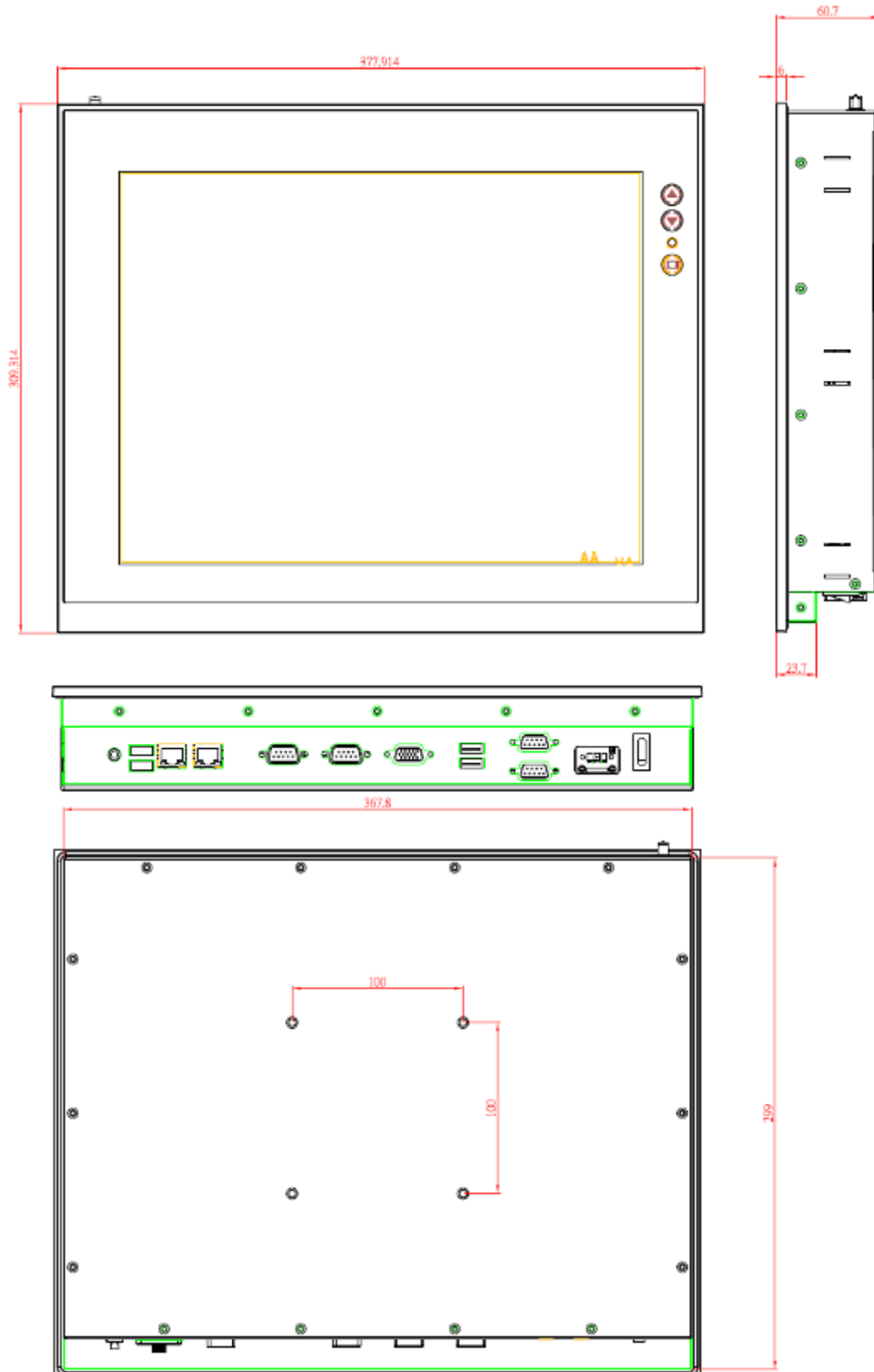
- 15" XGA(1024x768) LCD with LED backlight
- 5-wire resistive touch
- Fanless Heat Dispensing Design
- IP65 front bezel
- Disk drive housing:
  - 1 x 2.5" SATA drive
- Net Weight
  - 4.2 Kgs
- Dimension (Main Body Size)
  - 377.9 x 60.7 x 309.3 mm
- Operation Temperature
  - -20°C to 55°C
- Relative Humidity
  - 20% to 90% @ 40°C, Non-Condensing
- System Power input
  - DC power input : 9~36VDC with phoenix power connector



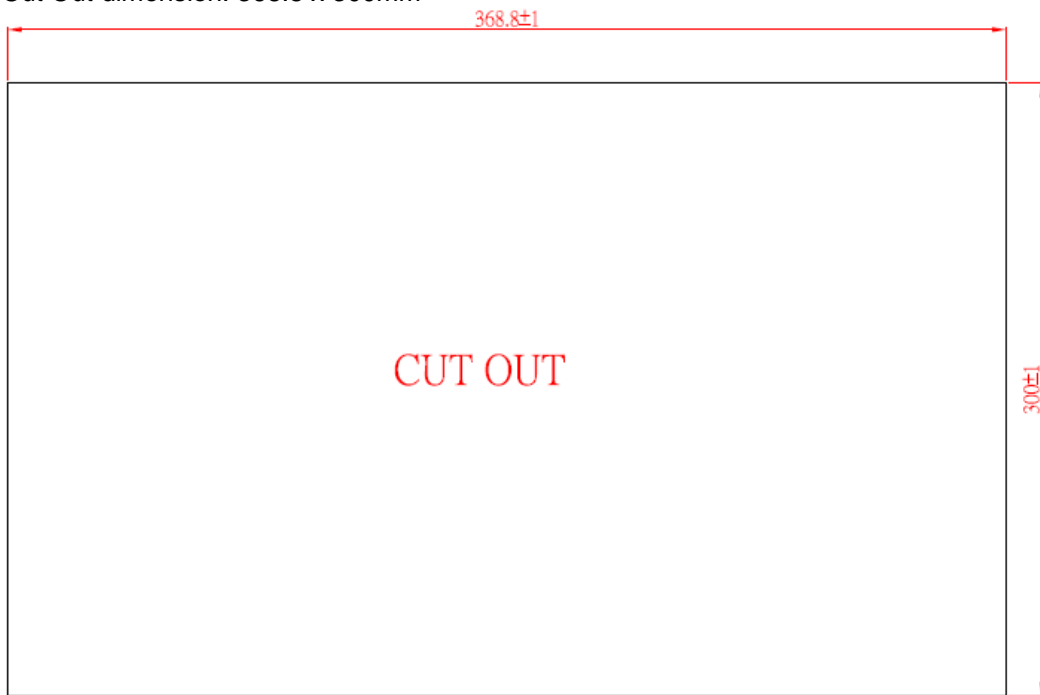
**NOTE:** All specifications and images are subject to change without notice.

### 1.3 Dimensions and Outlines

The following diagrams show the dimensions and outlines of GOT3156T-834  
Outline dimension: 377.9 x 309.3 x 60.7mm



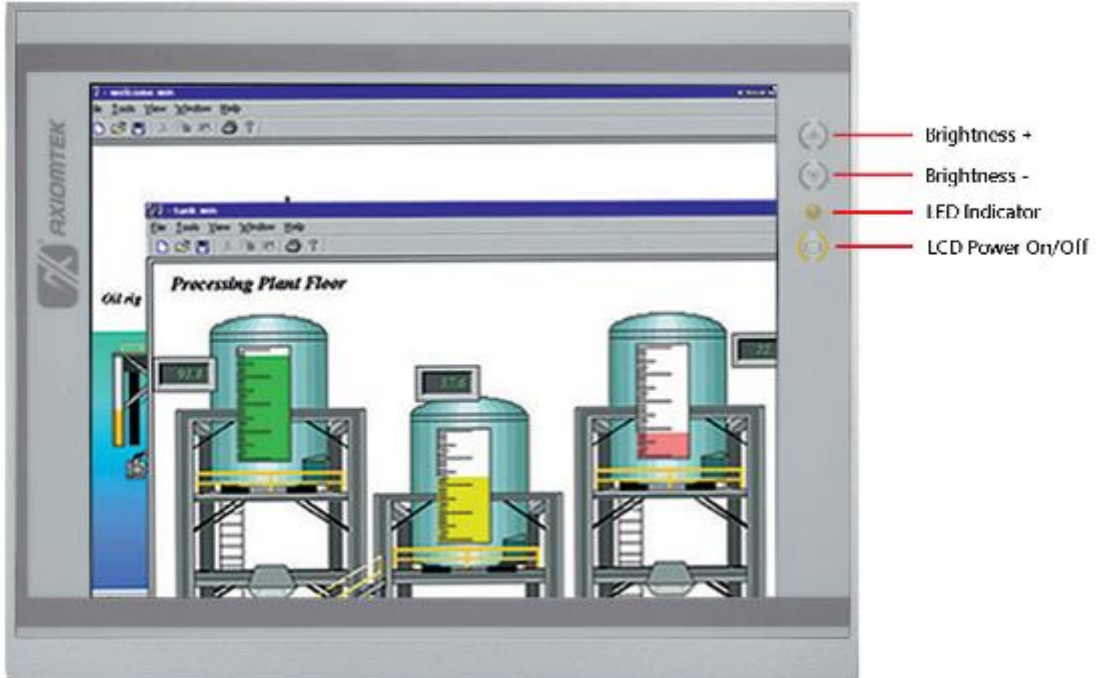
Cut Out dimension: 368.8 x 300mm



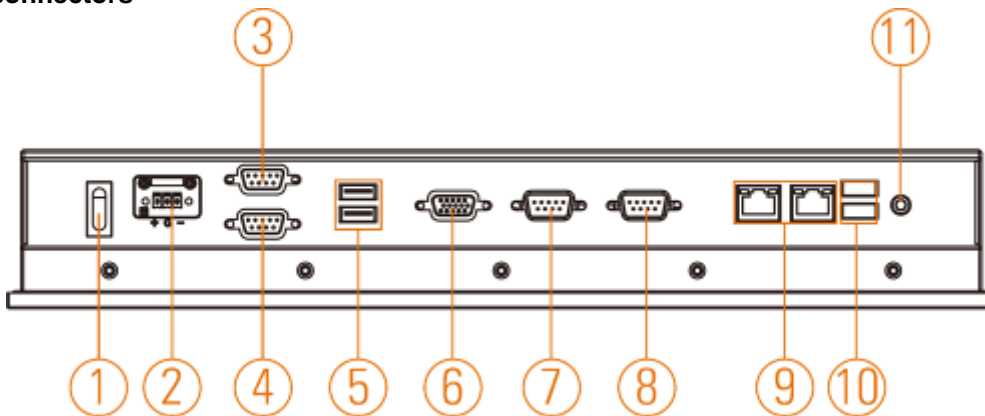
## 1.4 I/O Outlets

Please refer to the following illustration for I/O locations of the GOT3156T-834.

Front panel buttons:



I/O connectors



No	Function	No	Function
1	POWER SWITCH (ATX)	7	COM 1 (RS-232/422/485)
2	Power Input connector (phoenix type)	8	COM 2 (RS-232/422/485)
3	COM 4 (RS-232/422/485)	9	2 X Ethernet
4	COM 3 (RS-232/422/485)	10	2 X USB 3.0
5	2 X USB 2.0	11	AUDIO (LINE-OUT)
6	VGA output		

## 1.5 Packing List

When you receive the GOT3156T-834, the bundled package should contain the following items:

- **GOT3156T-834 unit x 1**
- **Driver CD x1**
- **Phoenix connector x 1**
- **Panel mount kit x 10**
- **Screws for HDD x 4**
- **SATA data cable x 1**
- **SATA power cable x 1**

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

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# Chapter 2

## Hardware and Installation

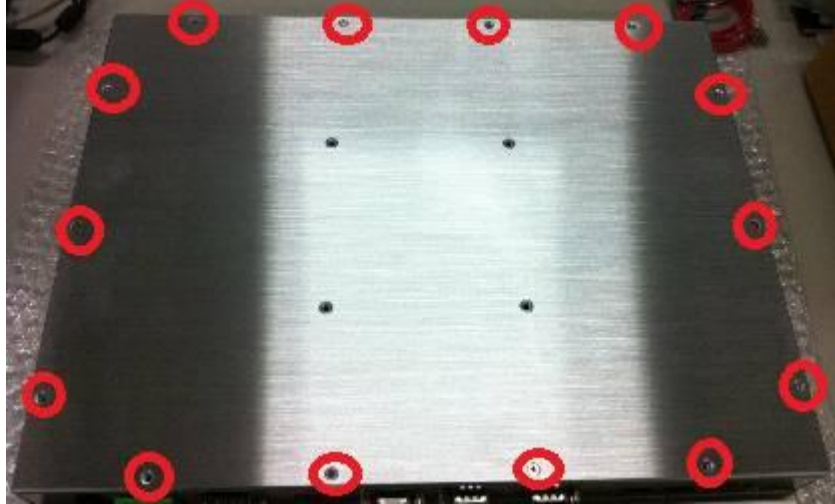
The GOT3156T-834 provides rich I/O ports and flexible expansions for you to meet different demand, for example CFast™ card. The chapter will show you how to install the hardware. It includes:

- Open Back Cover
- CFast™ Card
- Jumper and Switch Setting
- Ethernet
- Mounting Method
- Hard disk
- DRAM
- Wireless LAN Card
- Power Input

## 2.1 Open back cover

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

**Step 1** Unscrew 14 screws on the back cover. Please refer the photo below.



**Step 2** Remove the back cover.





## 2.2 CFast card Installation

The GOT3156T-834 provides one CFast slot for users to install CFast™ card. Please refer to the following instructions for installation:

**Step 1** Unscrew a screw on the cover of CFast™ card slot on left side.



**Step 2** Stick mylar on the CFast™ card.



**Step 3** Insert the card into the socket.

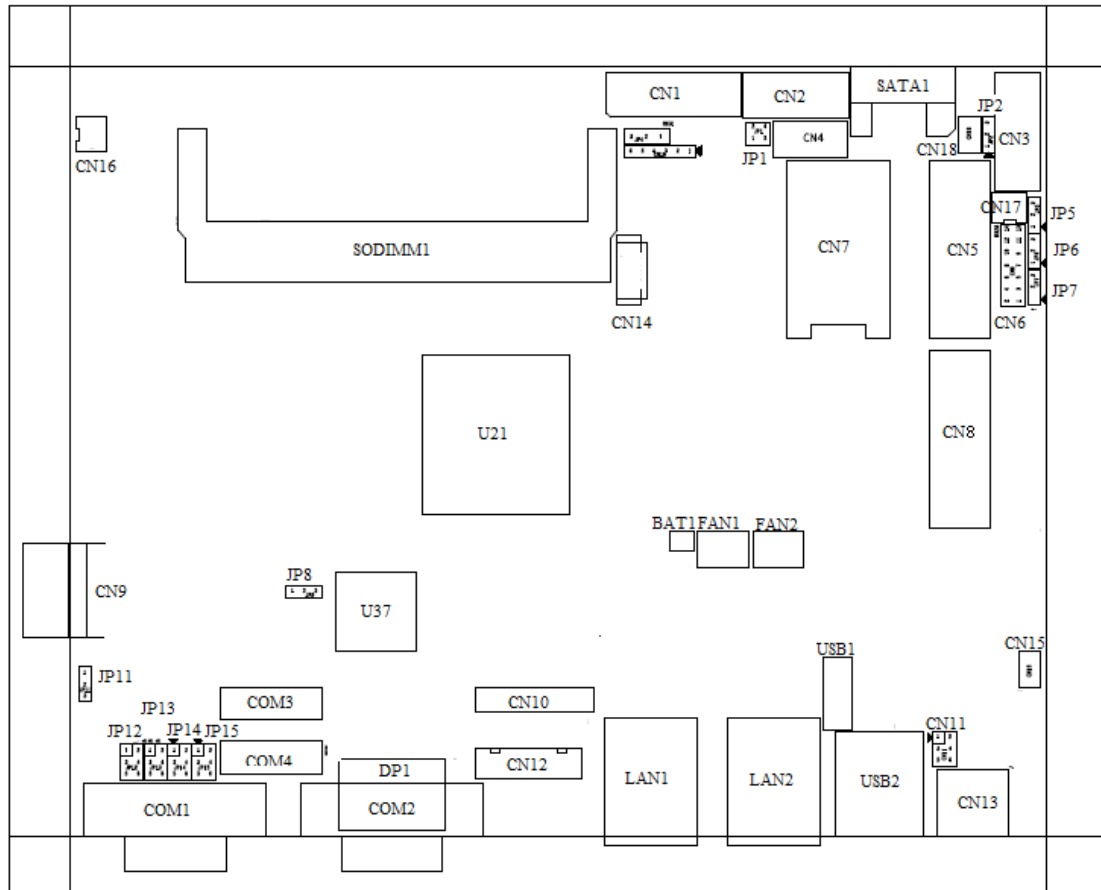


**Step 4** Close the cover of CFast™ card slot and fix it. Installation completes.

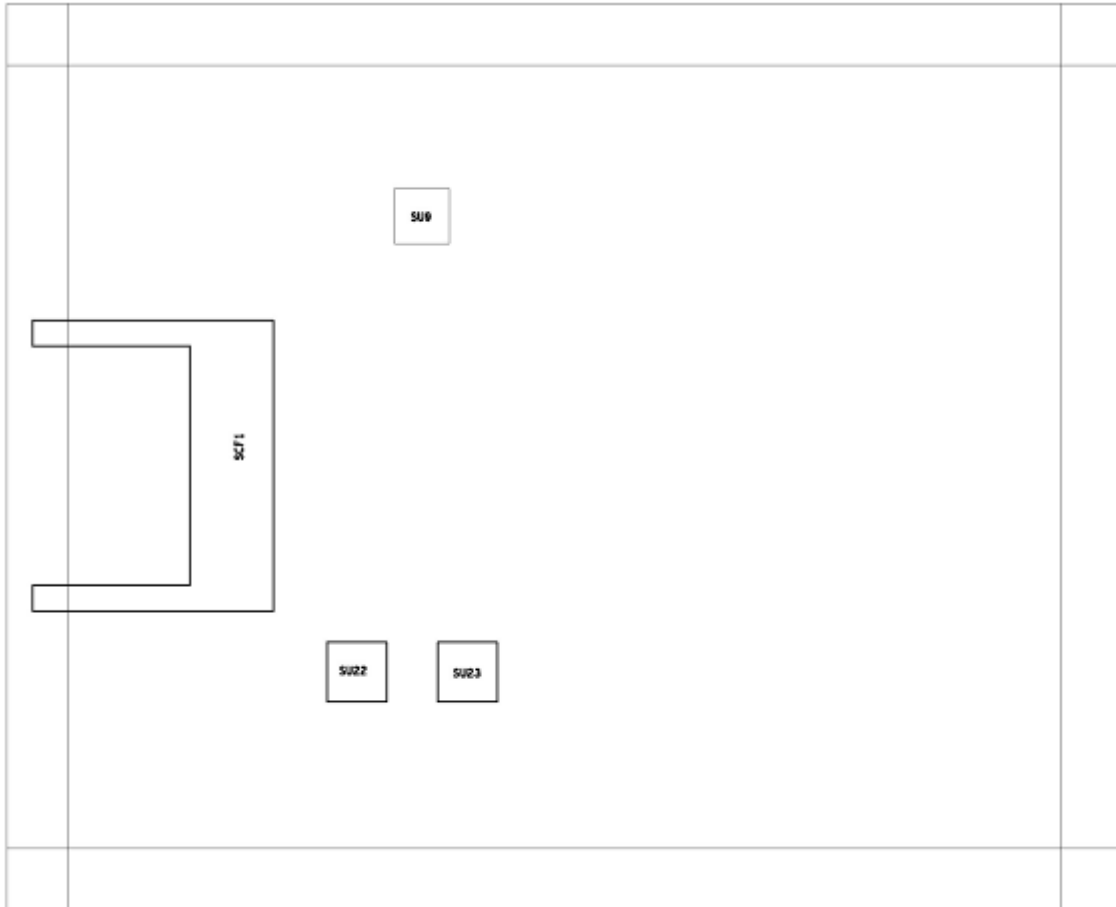
## 2.3 Jumper and Switch Setting

### Jumpers and Connectors Layout

#### Component Side

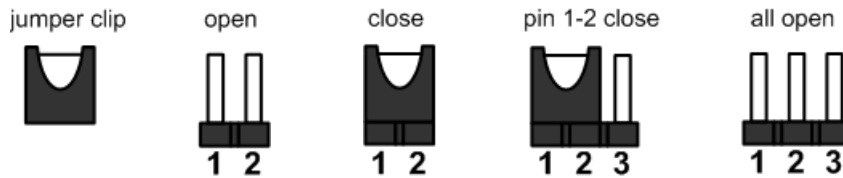


### Solder Side



## 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.



Making the proper jumper settings configure the **SBC87834** to match the needs of your application. The following table shows the default jumper settings for the onboard devices.

Jumper	★ Default Setting	Jumper Setting
JP1	★ Panel backlight control PWM mode Panel backlight control DC mode	Short 1-2 Short 3-4
JP2	★ Touch Controller 4,8 WIRE ★ Touch Controller 5 WIRE	Short 1-2 Short 2-3
JP4	★ LVDS Panel Power : 3.3V ★ LVDS Panel Power : 5V	Short 1-2 Short 2-3
JP5	★ Touch OFF ★ Touch ON	Short 1-2 Short 2-3
JP6	★ PCIe device ★ mSATA device	Short 1-2 Short 2-3
JP7	★ AT mode ★ ATX mode	Short 1-2 Short 2-3
JP8	★ Normal ★ Clear CMOS	Short 1-2 Short 2-3
JP11	★ COM3_5VSB ★ COM3_5V	Short 1-2 Short 2-3
JP12	★ COM1 normal mode COM1 pin1 with power :+5V COM1 pin9 with power :+12V	Short 3-5,4-6 Short 1-3,4-6 Short 3-5,2-4
JP13	★ COM2 normal mode COM2 pin1 with power :+5V COM2 pin9 with power :+12V	Short 3-5,4-6 Short 1-3,4-6 Short 3-5,2-4
JP14	★ COM3 normal mode COM3 pin1 with power :+5V COM3 pin9 with power :+12V	Short 3-5,4-6 Short 1-3,4-6 Short 3-5,2-4
JP15	★ COM4 normal mode COM4 pin1 with power :+5V COM4 pin9 with power :+12V	Short 3-5,4-6 Short 1-3,4-6 Short 3-5,2-4

**PCIe device & mSATA device selection (JP6)**

The default setting of JP6 is for PCIe mini-card. If you want to install mSATA card on your system, please remember to set this jumper to "2-3 close".

Function	Setting
PCIe device(default)	1-2 close
mSATA device	2-3 close

**Restore BIOS Optimal Defaults (JP8)**

Put jumper clip to pin 2-3 for a few seconds then move it back to pin 1-2. Doing this procedure can restore BIOS optimal defaults.

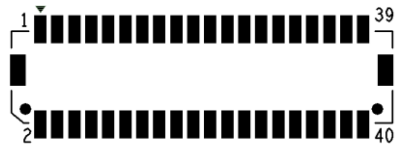
Function	Setting
Normal operation (Default)	1-2 close
Restore BIOS optimal defaults	2-3 close



## Connectors

The connectors allow the CPU Board to connect with other parts of the system. Ensure that all connectors are in place and firmly attached. The following table lists the function of each connector on the **SBC87834**.

Connectors	Label
LVDS connector	CN1
LVDS inverter connector	CN2
TOUCH connector	CN3
HDD power connector	CN4
Full size min-PCIe connector	CN5
FRONT PANEL pin header	CN6
SIM card connector	CN7
Full size min-PCIe connector	CN8
DC IN connector	CN9
Digital I/O pin header	CN10
Speaker Out & MIC IN connector	CN11
VGA connector	CN12
Audio connector	CN13
USB CONNECTOR (reserved)	CN14/CN20
Audio Lin In connector	CN15
Power lamp connector	CN16
Power button connector	CN17
Touch function enable/disable & LED indicator connector	CN18
Panel control Keypad connector	CN19
CPU FAN	FAN1
System FAN	FAN2
USB2.0 box header	USB1
USB3.0 connector	USB2
Display Port connector	DP1
SATA connector	SATA1
RJ45 LAN connector	LAN1, LAN2
Serial Port connector	COM1,COM2
Serial Port box header	COM3,COM4
CFast connector	SCF1

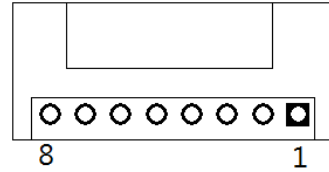
**LVDS connector: CN1****CN1 Pin Assignment**

Pin	Description	Pin	Description
1	VCC	21	GND
2	VCC	22	GND
3	VCC	23	LVDSA_DATAN0
4	VCC	24	LVDSB_DATAN2
5	VCC	25	LVDSA_DATAP0
6	VCC	26	LVDSB_DATAP2
7	DDC DATA	27	GND
8	DDC CLOCK	28	GND
9	GND	29	LVDSA_DATAN1
10	GND	30	LVDSA_DATAN3
11	LVDSB_DATAN3	31	LVDSA_DATAP1
12	LVDSB_DATAN0	32	LVDSA_DATAP3
13	LVDSB_DATAP3	33	GND
14	LVDSB_DATAP0	34	GND
15	GND	35	LVDSA_DATAN2
16	GND	36	LVDSA_CLKN
17	LVDSB_CLKN	37	LVDSA_DATAP2
18	LVDSB_DATAN1	38	LVDSA_CLKP
19	LVDSB_CLKP	39	GND
20	LVDSB_DATAP1	40	GND

**LVDS inverter connector: CN2**

**CN2 Pin Assignment**

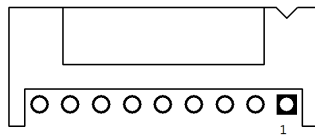
Pin	Description	Pin	Description
1	GND	5	Inverter ON-OFF
2	GND	6	+12V
3	GND	7	+12V
4	Backlight control	8	+12V



**TOUCH connector: CN3**

**CN3 Pin Assignment**

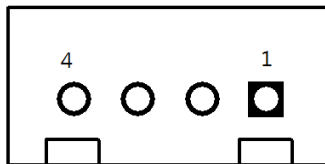
Pin	Description
1	X+
2	X-
3	Y+
4	Sense
5	X+
6	X-
7	Y+
8	Y-
9	GND



**HDD power connector: CN4**

**CN9 Pin Assignment**

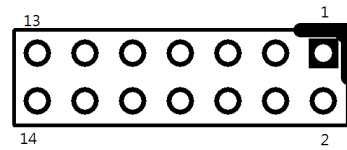
Pin	Description
1	+12V
2	GND
3	GND
4	+5V





**FRONT PANEL pin header: CN6****CN6 Pin Assignment**

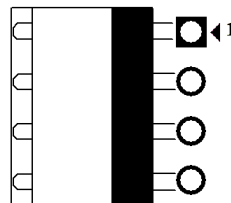
Pin	Description	Pin	Description
1	+ 5V	2	Beep
3	GND	4	BUZZER
5	GND	6	Beep
7	NC	8	+5V
9	GND	10	PWBTN
11	GND	12	RESET
13	SATA LED	14	+3.3V

**SIM card connector: CN7****CN7 Pin Assignment**

Pin	Description	Pin	Description
1	UIM PWR	5	GND
2	UIM RST	6	UIM VPP
3	UIM CLK	7	UIM DATA
4	NC	8	NC

**Power connector: CN9****CN9 Pin Assignment**

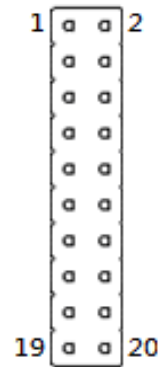
Pin	Description
1	DCIN (9V -36V)
2	DCIN (9V -36V)
3	GND
4	GND



**Digital I/O pin header: CN10**

**CN10 Pin Assignment**

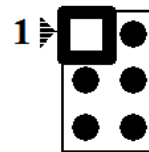
Pin	Description	Pin	Description
1	GND	6	GND
2	GPIO0	7	GPIO1
3	GPIO2	8	GPIO3
4	GPIO4	9	GPIO5
5	GPIO6	10	GPIO7
11	GPIO8	12	GPIO9
13	GPIO10	14	GPIO11
15	GPIO12	16	GPIO13
17	GPIO14	18	GPIO15
19	GND	20	GND



**Speaker-out & MIC-in connector: CN11**

**CN11 Pin Assignment**

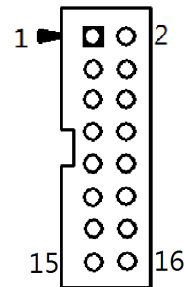
Pin	Description	Pin	Description
1	SPKOUT_L-	2	SPKOUT_L +
3	SPKOUT_R-	4	SPKOUT_R +
5	MIC IN	6	GND



**VGA Cable Connector: CN12**

**CN12 Pin Assignment**

Pin	Signal	Pin	Signal
1	Red	2	GND
3	Green	4	N.C.
5	Blue	6	N.C.
7	VCC	8	DDC DATA
9	GND	10	N.C.
11	GND .	12	Horizontal Sync
13	GND	14	Vertical Sync
15	DCC CLK	16	N.C.

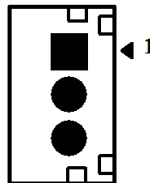


**USB CONNECTOR (reserved): CN14/CN20****CN14/CN20 Pin Assignment**

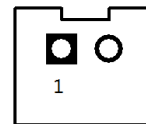
Pin	Description
1	VCC
2	D-
3	D+
4	GND
5	GND

**Audio Lin In connector: CN15****CN15 Pin Assignment**

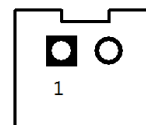
Pin	Description
1	LINE IN L
2	GND
3	LIN IN R

**Power lamp connector: CN16****CN16 Pin Assignment**

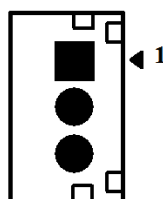
Pin	Description	Pin	Description
1	Power (+5V)	2	GND

**Power button connector: CN17****CN17 Pin Assignment**

Pin	Description	Pin	Description
1	Power Button	2	GND

**Touch function enable/disable & LED indicator connector: CN18****CN18 Pin Assignment**

Pin	Description
1	ON/OFF button
2	GND
3	LED



**Panel control Keypad connector: CN19**

**CN19 Pin Assignment**

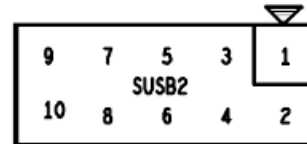
Pin	Description
1	GND
2	Panel ON/OFF
3	Normal indicate LED
4	POWER LED
5	Blacklight down
6	Blacklight up



**USB box header: USB1**

**USB1 Pin Assignment**

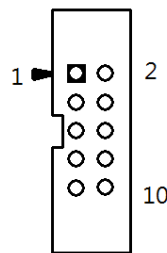
Pin	Description	Pin	Description
1	+5V	2	+5V
3	USB-	4	USB-
5	USB+	6	USB+
7	GND	8	GND
9	GND	10	GND



**Serial Port box header: COM3, COM4**

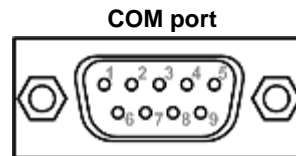
**COM3, COM4 Pin Assignment**

Pin	Description	Pin	Description
1	DCD	2	DSR
3	RX	4	RTS
5	TX	6	CTS
7	DTR	8	RI
9	GND	10	NC



The system has four serial ports. They are RS-232/422/485 ports. Please refer to below table for the detail of pin assignment.

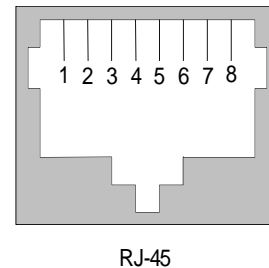
Pin	RS-232	RS-422	RS-485
1	DCD, Data Carrier Detect	TX-	Data-
2	RXD, Receive Data	TX+	Data+
3	TXD, Transmit Data	RX+	No use
4	DTR, Data Terminal Ready	RX-	No use
5	GND, Ground	No use	No use
6	DSR, Data Set Ready	No use	No use
7	RTS, Request To Send	No use	No use
8	CTS, Clear To Send	No use	No use
9	RI, Ring Indicator	No use	No use



## 2.4 Ethernet

The GOT3156T-834 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)
3	Rx+(Data reception positive)
4	RJ45 termination
5	RJ45 termination
6	Rx- (Data reception negative)
7	RJ45 termination
8	RJ45 termination

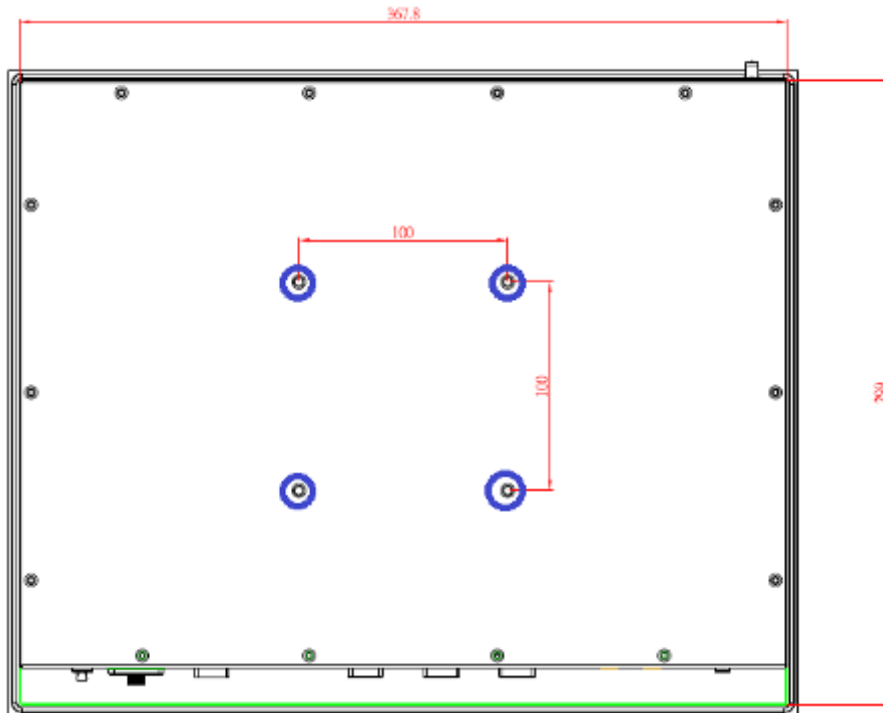


## 2.5 Mountings: Panel / Wall / Desktop / VESA

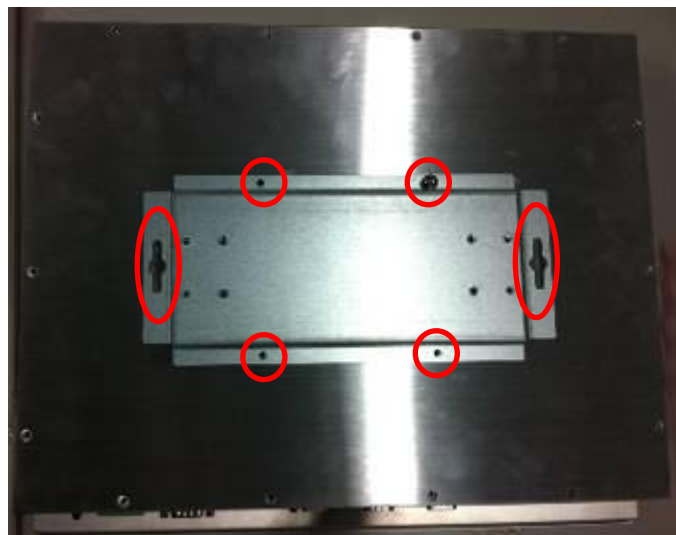
There are 4 application options for the GOT3156T-834, Panel/Wall/Desktop/VESA mountings.

### VESA-ARM/Wall-Mount

**VESA mount:** 100x100 mm. Screw four screws to fix VESA arm or other VESA fixture.



**Wall mount:** This is an optional wall kit. Screw it on the rear of chassis to support wall mount.



## **Panel-mount Kit Assembly**

The GOT3156T-834 is designed for panel mount application. To mount the GOT3156T-834, the standard set of mounting kit (included in the system packaging) is needed.



## 2.6 HDD Installation

The GOT3156T-834 provides a convenient Hard Disk Drive (HDD) bracket for users to install 2.5" SATA HDD. Please follow the steps:

**Step 1** Refer section 2.1 to open the back cover.

**Step 2** Unscrew 4 screws to take off the HDD bracket.



**Step 3** Fix the HDD on bracket by 4 screws.





**Step 4** Fix the HDD bracket into the system, and plug the data and power cable to HDD & SBC87834 mother board. Installation completed.



## 2.7 DRAM Installation

The GOT3156T-834 provides one 204-pin DDR3L SODIMM socket that supports system memory up to 8GB. Please follow steps below to install the memory modules:

**Step 1** Refer to section 2.2 to open the back cover.



**Step 2** Insert the DRAM to the DIMM socket, and then push it down firmly until it is clipped by the socket.



**Installation completed**

## 2.8 mSATA Card Installation

The GOT3156T-834 provides one Mini card slot for user to install one mSATA card. When installing it, please refer to the following instructions and illustration:

- Step 1** Refer to section 2.1 to open the back cover and find out mini-card slot (CN8) on mainboard.
- Step 2** Insert the wireless LAN card to the slot. Push it down firmly and screw it. Hardware installation completed.



The default setting of JP6 is for PCIe mini-card. If you want to install mSATA card on your system, please remember to set this jumper to 2-3 close.

Function	Setting
PCIe device(default)	1-2 close
mSATA device	2-3 close



## 2.9 Wireless LAN Card Installation

The GOT3156T-834 provides one Mini card slot for user to install one wireless LAN card. When installing the wireless LAN card, refer to the following instructions and illustration:

- Step 1** Refer to section 2.1 to open the back cover and find out mini-card slot on mainboard.



- Step 2** Insert the wireless LAN card to the slot. Push it down firmly until it is clipped by the slot.



**Step 3** Find the Antenna cable and connect it on wireless LAN card.



**Step 4** Remove the antenna plug from the top of back cover, then Install the antenna on the antenna connector.



 **NOTE:** Please have the extended bracket when using half-size mini card.

## 2.10 Power Input

GOT3156T-834 equips with a phoenix type power connector. It adopts 9VDC to 36VDC. Please follow the signs on power connector to connect DC power source.

**+**: Power positive    **G**: Safety ground    **-**: Power negative



**NOTE:** The safety ground must be connected to ensure the unit working appropriately.

# Chapter 3

## AMI BIOS Setup Utility

This chapter provides users with detailed description how to set up basic system configuration through the AMIBIOS8 BIOS setup utility.

### 3.1 Navigation Keys

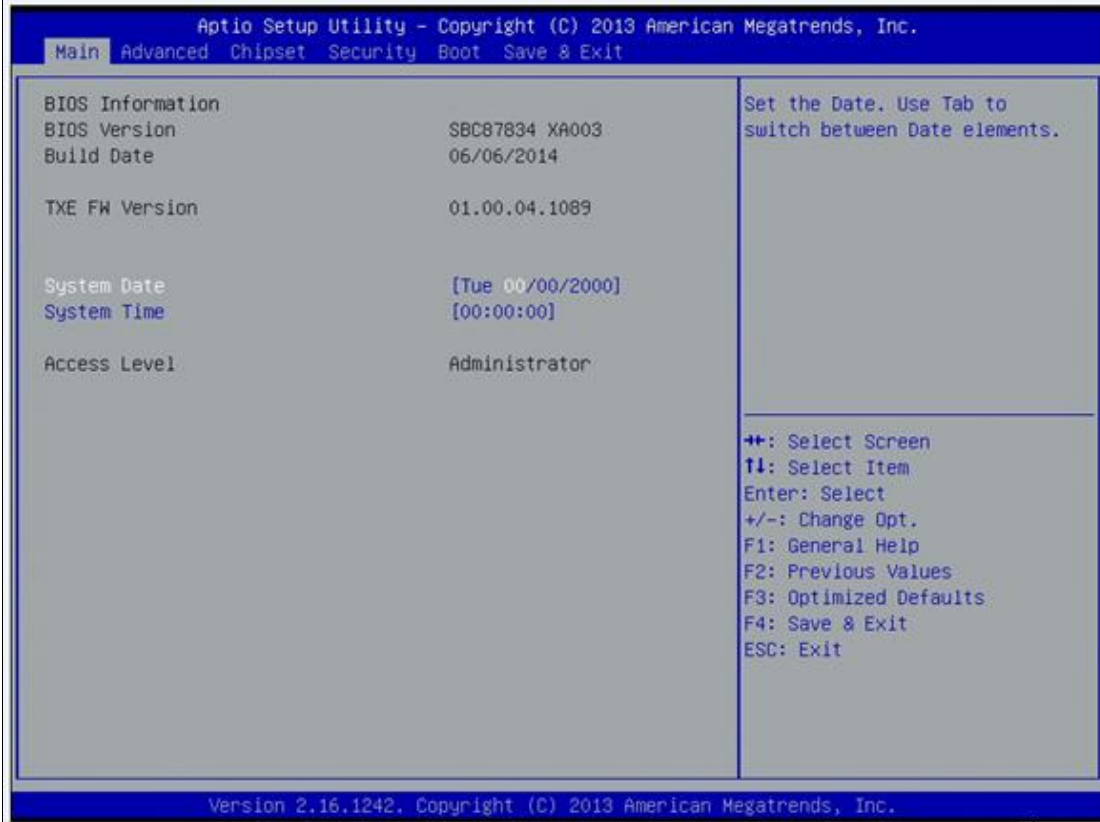
The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process. These keys include <F1>, <F2>, <F3>, <F4>, <Enter>, <ESC>, <Arrow> keys, and so on.



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

<b>&lt; Left/Right</b>	The Left and Right <Arrow> keys allow you to select a setup screen.
<b>↑↓ Up/Down</b>	The Up and Down <Arrow> keys allow you to select a setup screen or sub-screen.
<b>+– Plus/Minus</b>	The Plus and Minus <Arrow> keys allow you to change the field value of a particular setup item.
<b>Tab</b>	The <Tab> key allows you to select setup fields.
<b>F1</b>	The <F1> key allows you to display the General Help screen.
<b>F2</b>	The <F2> key allows you to load previous value
<b>F3</b>	The <F3> key allows you to Load Optimized Defaults.
<b>F4</b>	The <F4> key allows you to save any changes you have made and exit Setup. Press the <F4> key to save your changes.
<b>Esc</b>	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.
<b>Enter</b>	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.

## 3.2 Main Menu

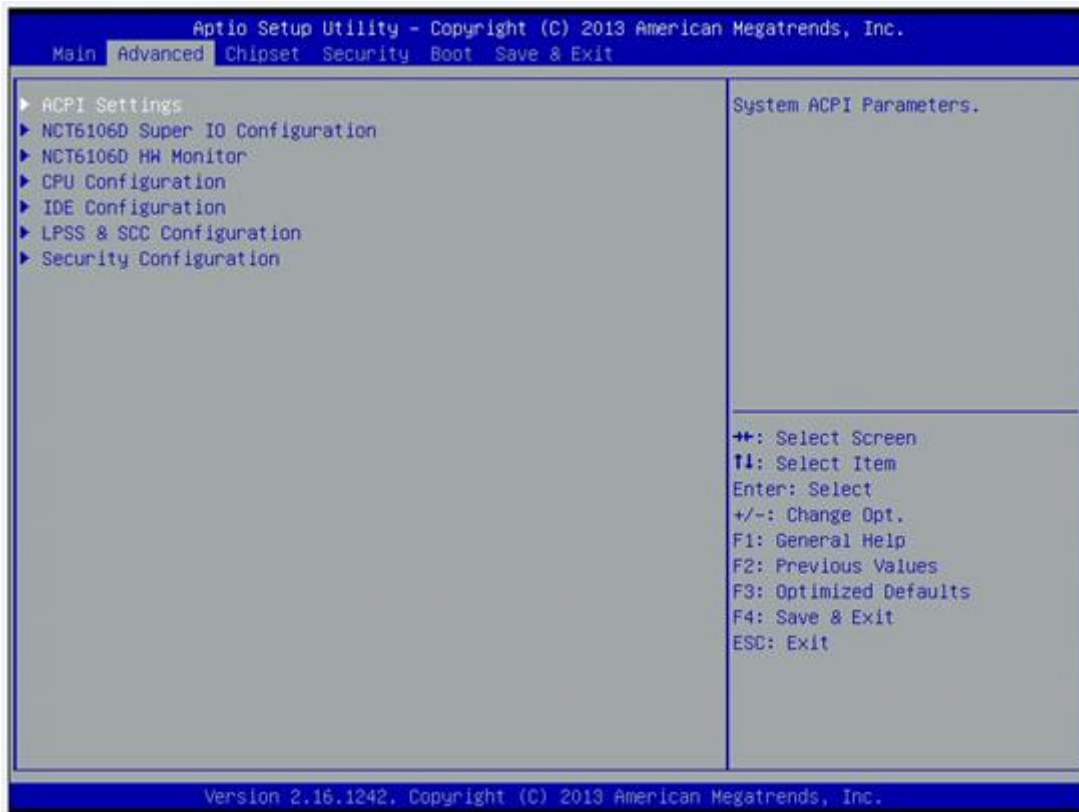


### System Time/Date

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.



### 3.3 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:

- ACPI Settings
- NCT6106D Super IO Configuration
- NCT6106D H/W Monitor
- CPU Configuration
- IDE Configuration
- LPSS & SCC Configuration
- Security Configuration

For items marked with “▶”, please press <Enter> for more options.’

## 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.

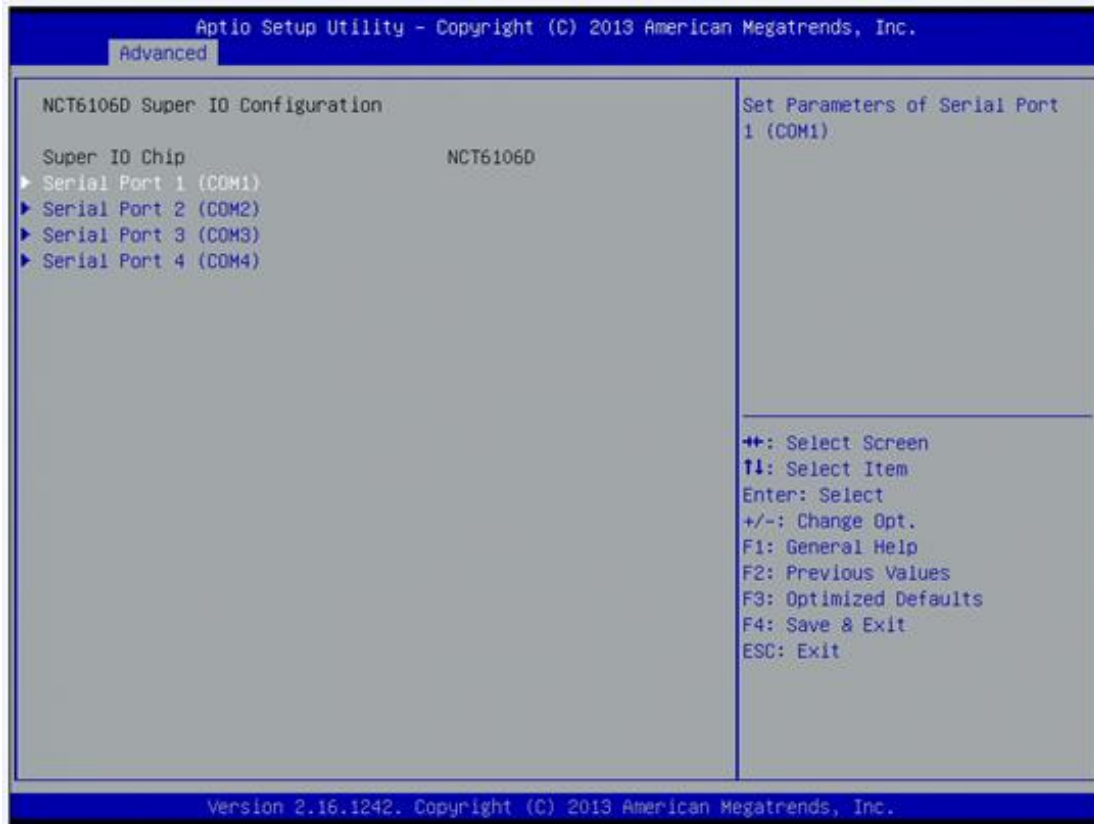
### ACPI Sleep State

Allow you to select the Advanced Configuration and Power Interface (ACPI) state to be used for system suspend. Here are the options for your selection, Suspend disable and S3 (Suspend to RAM).



## NCT6106D Super IO Configuration

Use this screen to select options for the Super IO Configuration, and change the value of the selected option



### Serial Port 1-4 configuration

#### Serial port:

This option used to enable or disable the serial port.

#### Device Setting:

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

The port 0 Optimal setting is 3F8/IRQ4.

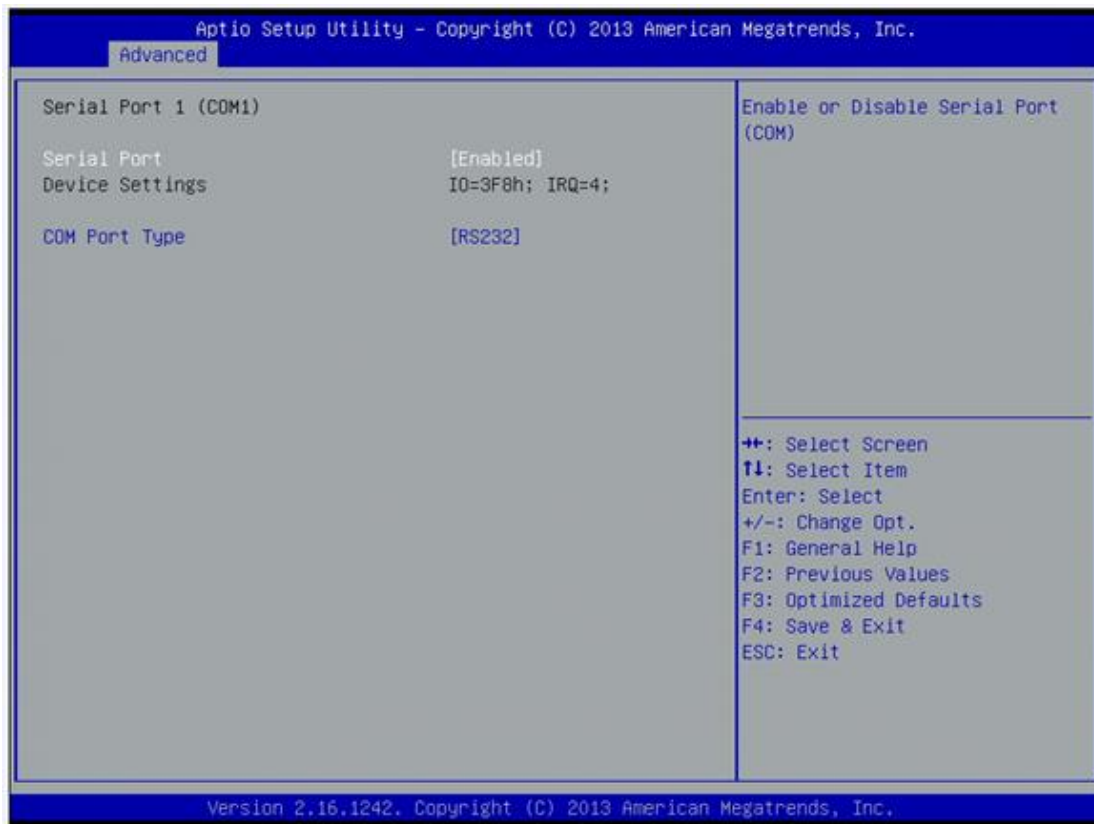
The port 1 Optimal setting is 2F8/IRQ3.

The port 2 Optimal setting is 3E8/IRQ7

The port 3 Optimal setting is 2E8/IRQ5.

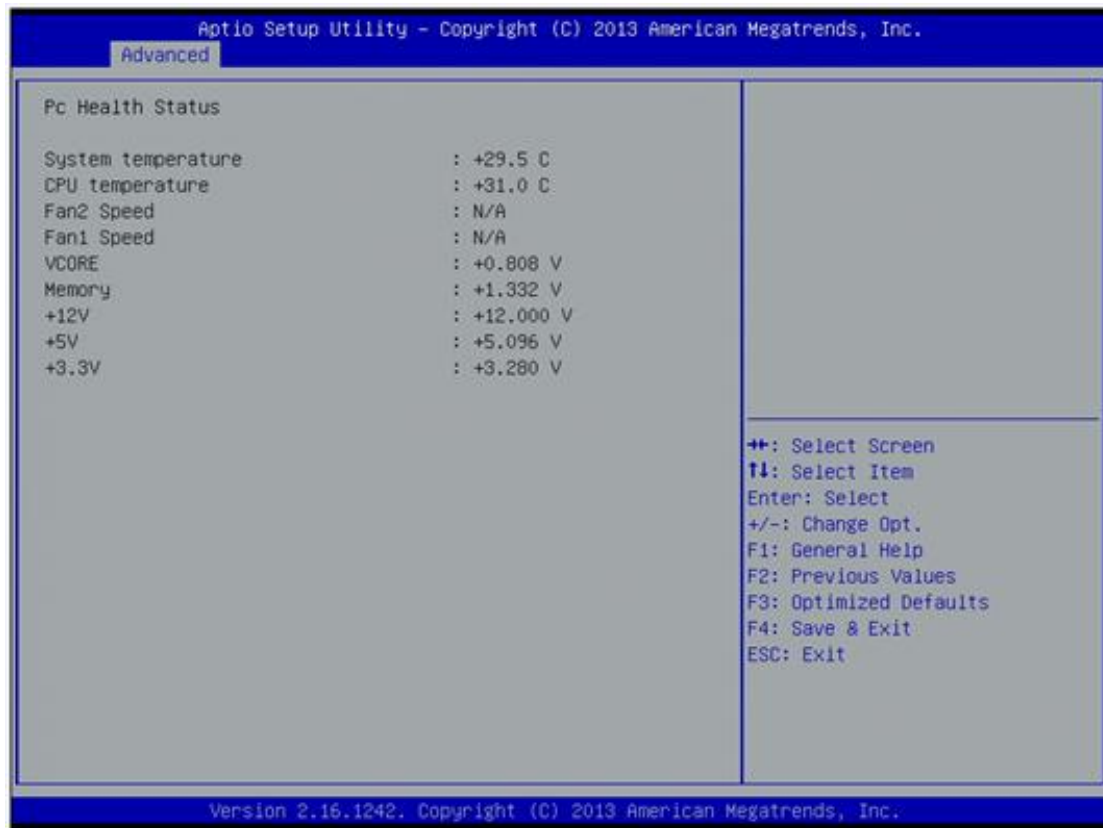
**Serial type:**

This option used to select RS232/422/485 function.



**NCT6106D H/W Monitor**

This screen shows the Hardware Health Configuration.



## CPU Configuration

This screen shows the CPU Configuration and Intel virtualization technology enable/disable selected

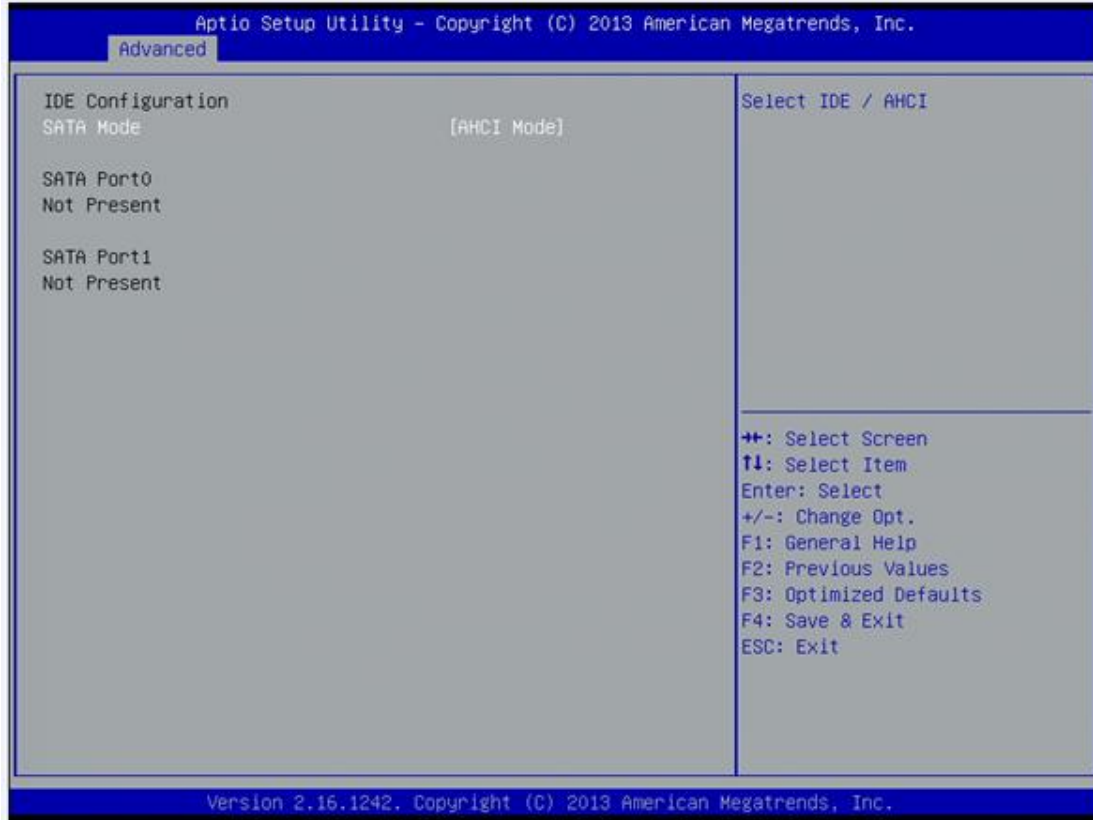


## IDE Configuration

You can use this screen to select options for the SATA Configuration, and change the value of the selected option.

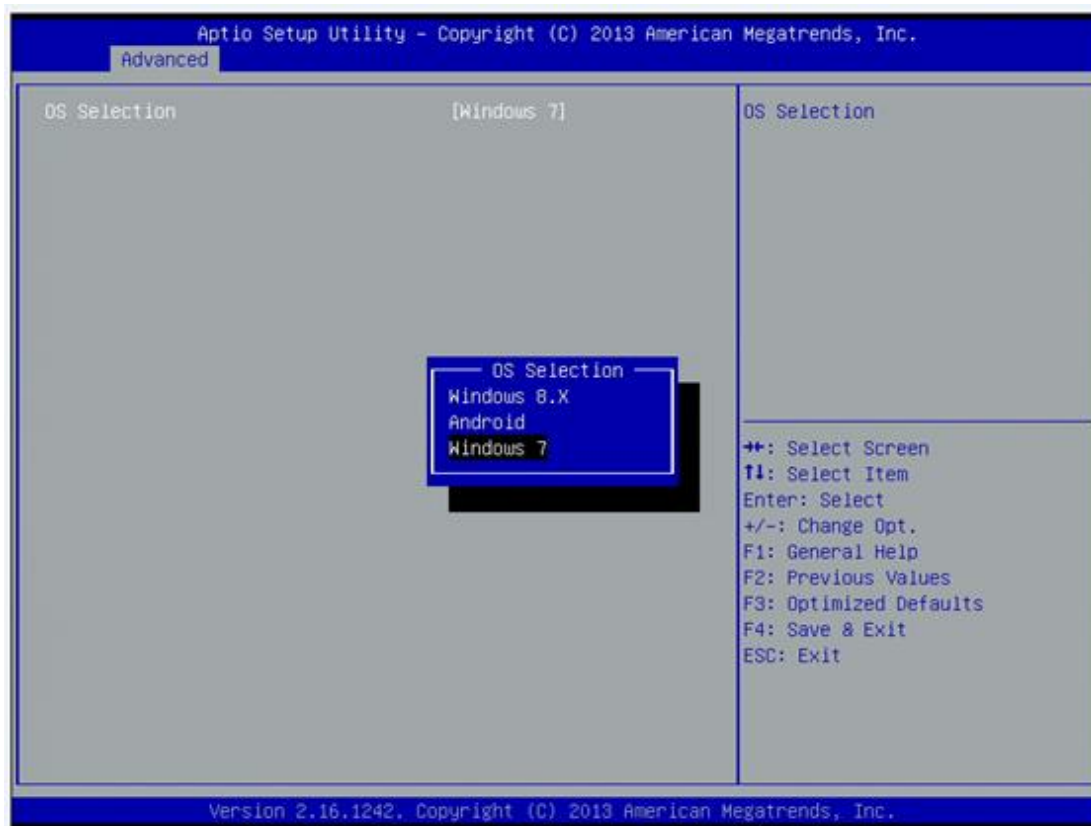
### SATA Mode

Use this item to choose the SATA operation mode. Here are the options for your selection, IDE Mode, AHCI Mode.



## LPSS & SCC Configuration

You can select any of the items in the frame of the screen to change the OS, the default setting is Win 7.



Please be informed to select the Windows 8.x when installing Win 8 or Win 8.1.

**If using the Android OS, please refer to <https://01.org/android-ia>.**



## Security Configuration - Intel TXE Configuration

The Advanced menu allows users to update the TXE firmware.



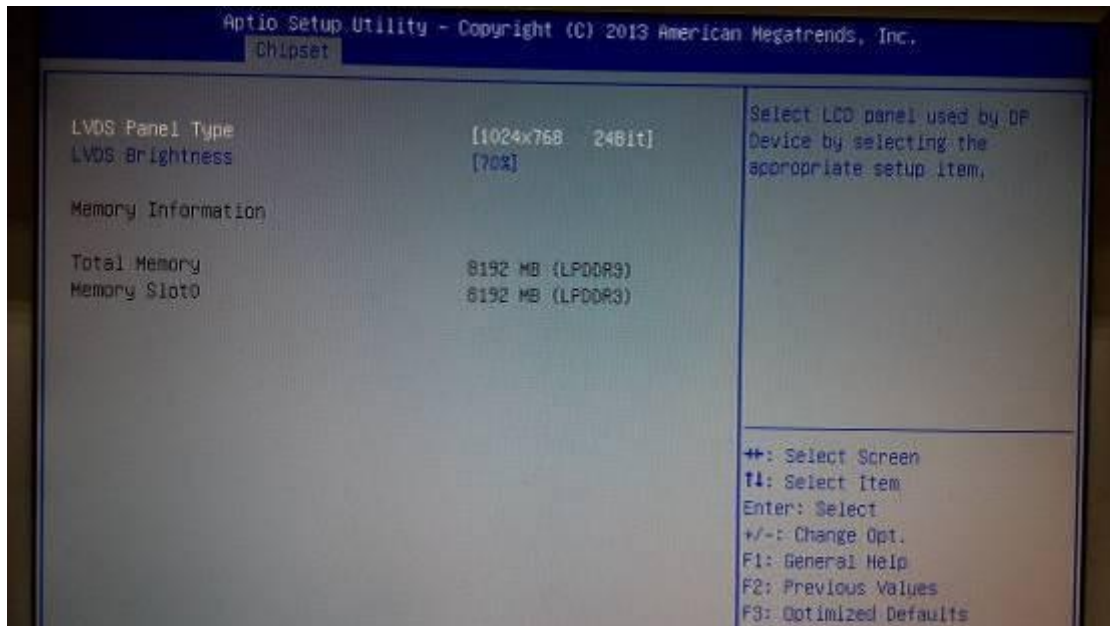
### 3.4 Chipset Menu

The Chipset menu allows users to change the advanced chipset settings.



## North Bridge

This screen shows the North Bridge memory information.

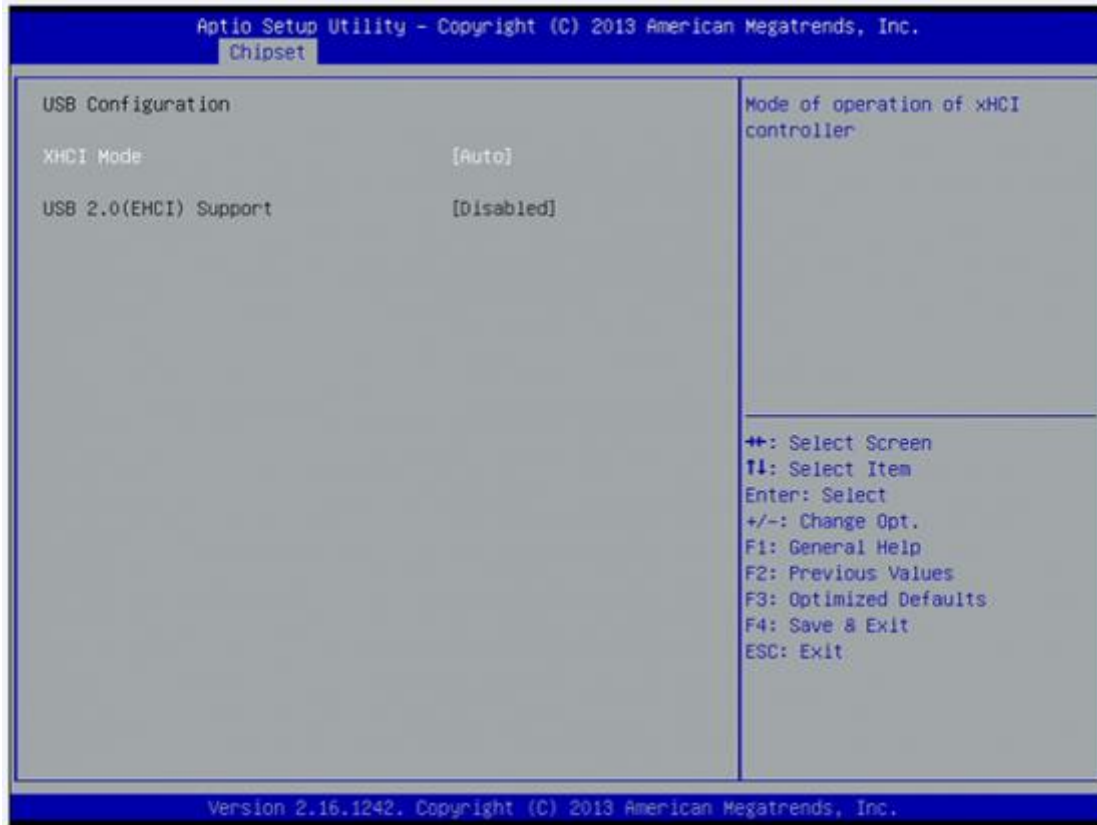


## South Bridge

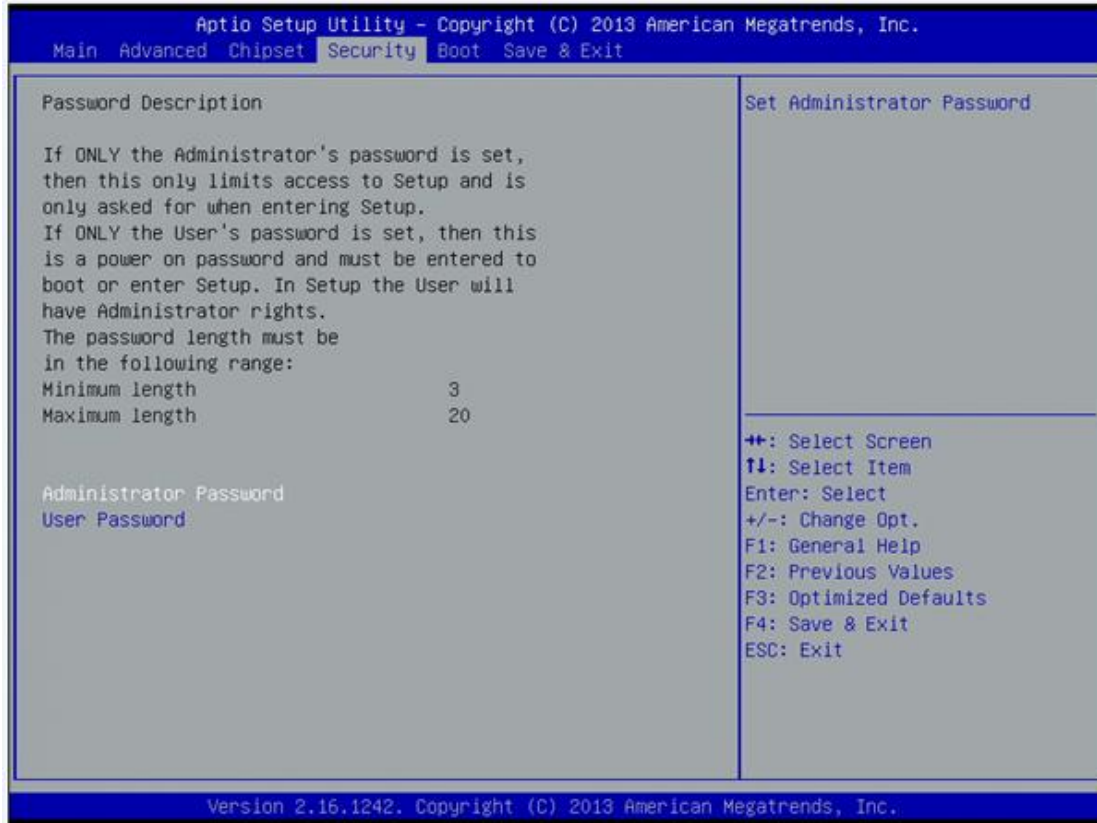


## USB Configuration

You can use this screen to select options for the USB Configuration, If USB3.0 function used, XHCI Mode must enable and EHCI must disable.  
\*\*XHCI default is Auto.



### 3.5 Security



## 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:



### Setup Prompt Timeout

Set the Timeout for wait press key to enter Setup Menu.

### Bootup NumLock State

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

### Quiet Boot

Use this item to enable or disable the Quiet Boot state. The default setting is disable.

### Legacy Pxe OPROM

Use this item to enable or disable the Preboot Execution Environment. The default setting is disable.

### Boot Option Priorities

Specifies the overall boot order from the available devices.

### 3.7 Save&Exit



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# Chapter 4

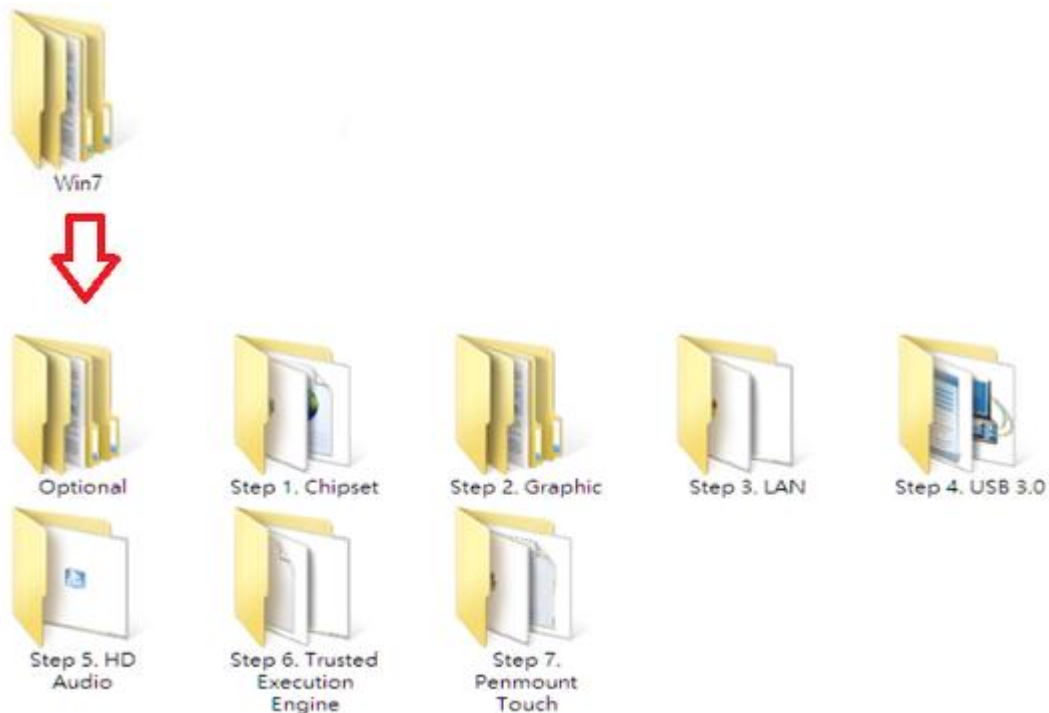
## Drivers Installation

### 4.1 System


GOT3156T-834 supports Windows 7(64bit), Windows 8/8.1, WES 7(64bit) and WE8S. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.


#### 4.1.1 Win 7 (64bit)


1. Insert Driver CD and select the “\Drivers”.



2. Select all files and follow the installing procedure.

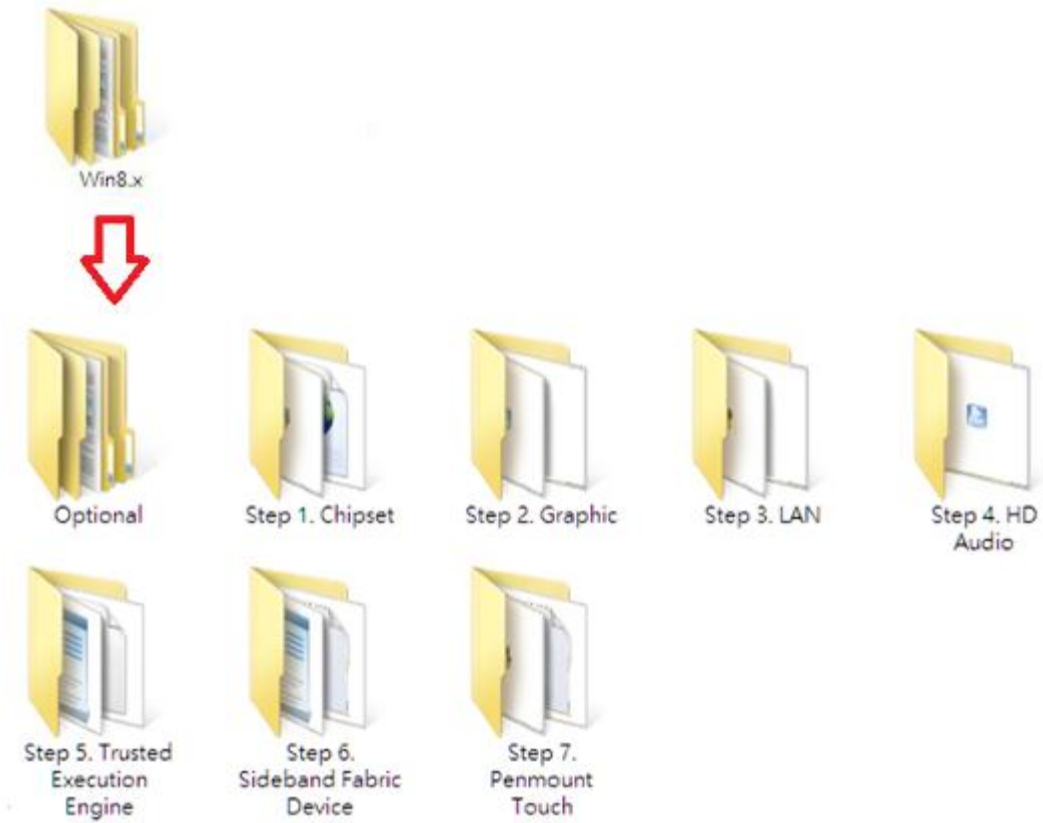
 **NOTE:** Please install Microsoft KB2685811 before TXE installation under Windows 7, then installing the drivers.

 **NOTE:** Don't run “Step 4. USB3.0” driver's installer (Setup.exe) from a USB storage device (ie. external USB hard drive or USB thumb drive). For proper installation, please copy driver files to a local hard drive folder and run from there.

 **NOTE:** If you set your system in “Hibernate mode” before you install “Step 2. Graphic” driver, the monitor can't display when you awake your system. Reboot your system and the monitor will display. Please install graphic driver, and there is no display problem with “Hibernate mode”.

### 4.1.2 Win 8/8.x

1. Insert Driver CD and select the “\Drivers”.



3. Select all files and follow the installing procedure.



**NOTE:** *If you set your system in “Hibernate mode” before you install “Step 2. Graphic” driver, the monitor can’t display when you awake your system. Reboot your system and the monitor will display. Please install graphic driver, and there is no display problem with “Hibernate mode”..*

## 4.2 Touch Screen

The GOT3156T-834 uses the 5-wire analog resistive (flat front bezel type). There are the specification and driver installation which are listed below.

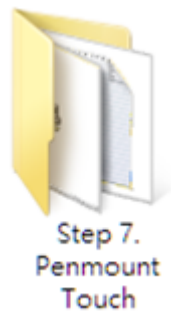
### 4.2.1 Specification

<b>Touch Screen</b>	5-wire Analog Resistive type
<b>Touch Screen Controller</b>	PenMount 6000 USB Touch Screen Controller IC
<b>Communications</b>	USB interface
<b>Resolution</b>	1024 x 1024
<b>Power Input</b>	5V
<b>Power Consumption</b>	Active: 24.6mA / Idle Mode: 13.4mA

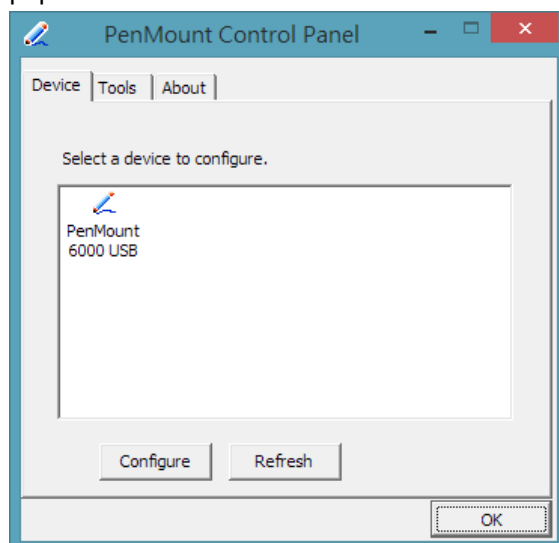
### 4.2.2 Driver Installation- Windows 7/8.x

The GOT3156T-834 provides a touch screen driver that users can install it under the operating system Windows 7/8.x. To facilitate installation of the touch screen driver, you should read the instructions in this chapter carefully before you attempt installation.

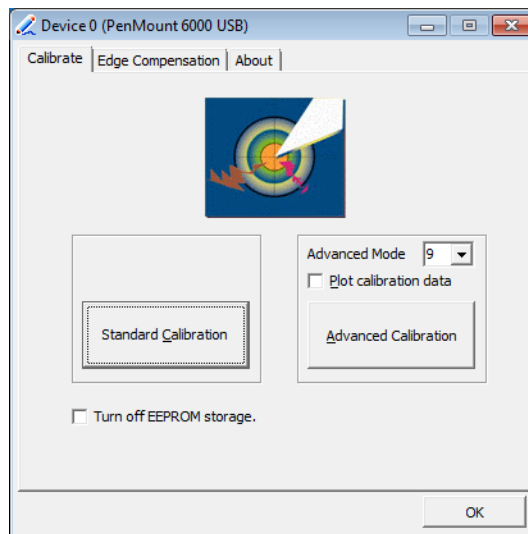
1. Insert Driver CD and follow the path to select the “\Drivers\Step 7 - Touch”.



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

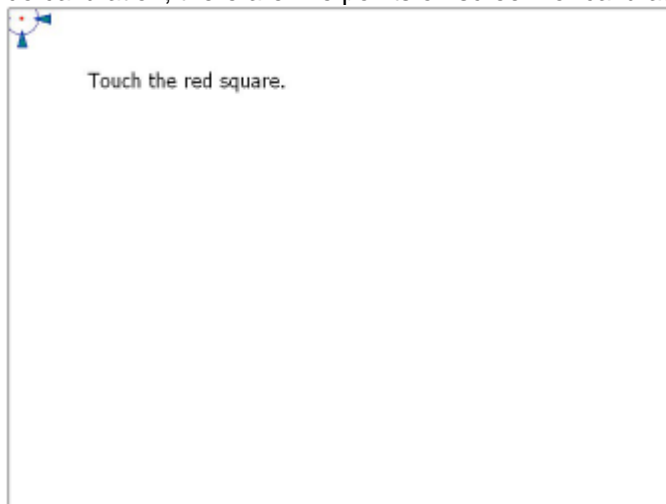


4. Select the "Standard Calibrate" tab.



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.



6. Press OK.

## 4.3 Embedded O.S.

The GOT3156T-834 provides the WES 7 and WE8S Embedded. The O.S. is supported devices which are listed below.

### 4.3.1 WES 7 & WE8S

Here are supported onboard devices:

- Onboard Multi I/O
- SATA HDD
- USB
- CRT/LCD display
- 10/100/1000 base-T Ethernet
- CFast™ or mSATA
- 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.

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