AXIOMTEK

GOT812H(L)-880

12.1" XGA TFT
Touch Panel Computer

User's Manual

IP69K certification distinguishes the highest level of reliability

RoHS

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Safety Precautions

Before getting started, please read the following important safety precautions.

1. The GOT812H(L)-880 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 GOT812H(L)-880 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 GOT812H(L)-880 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 GOT812H(L)-880 may come with or w/o a touchscreen. Although the touchscreen is chemical resistant, it is recommended that you spray the liquid cleaner on a cloth first before wiping the screen. In case your system comes without the touchscreen, you must follow the same procedure and not spray any cleaner on the flat panel directly.

6. Avoid using sharp objects to operate the touchscreen. Scratches on the touchscreen may cause malfunction or internal failure to the touchscreen.

7. The flat panel display is not susceptible to shock or vibration. When assembling the GOT812H(L)-880, 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 wrist-grounding strap, available from most electronic component stores.

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CHAPTER 1
Introduction

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This chapter contains general information and detailed specifications of the GOT812H(L)-880. Chapter 1 includes the following sections:

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

1.1   General Description

The GOT812H(L)-880 is a fan-less and compact-size touch panel computer, equipped with a 12.1" XGA TFT LCD display and Intel® Core™ i5 4300U 1.9 GHz (Haswell ULT) processor. The GOT812H(L)-880 supports Windows® 8.1/8/7, Windows® CE.NET and Windows® embedded OSs. The panel computer is able to install a CFast™ and provided a Mini card slot for extension such as WIFI. Its excellent ID and friendly user interface make it a professional yet easy-to-use panel computer. The GOT812H(L)-880 is an ideal for space-limited applications in food and beverage industry.

- **GOT812H(L)-880: 12.1" TFT XGA Fanless Touch Panel Computer**

  - Reliable and Stable Design

    The GOT812H(L)-880 adopts a fanless cooling system which makes it suitable for vibration environments.

  - Embedded O.S. Supported

    The GOT812H(L)-880 not only supports Windows® 7 and Windows® 8/8.1,, but also supports embedded OS, such as Windows® CE.NET, and Windows® 7/8/8.1 embedded. For storage device, the GOT812H(L)-880 supports 2.5" SSD device.

  - Industrial-grade Product Design

    The GOT812H(L)-880 has an incredible design to be used in different industrial environments.

- **The whole enclasure meets the IP66 standard.**

- **For connecting other devices, the GOT812H(L)-880 also features several interfaces: USB, Ethernet, and RS-232/422/485.**

1.2   Specifications

1.2.1 Main CPU Board

- **CPU**
    - ■ Intel® Core™ i5 4300U 1.9 GHz (Haswell ULT)
- **System Memory**
    - ■ One 204-pin DDR3L SO-DIMM socket
    - ■ Maximum memory up to 8GB
- **BIOS**
    - ■ America Megatrends BIOS
- **Power**
    - ■ Wide range power 9V~36VDC

1.2.2 I/O System

- **Standard I/O**
    - ■ 1 x RS-232/422/485(default RS-232) (M12 A-coded connector) ;1 x RS-232
    - ■ 4 x USB 2.0 (M12 A-coded connector)
- **Ethernet**
    - ■ 1 x Intel I210IT Gigabit Ethernet (M12 X- coded connector)
- **Expansion**
    - ■ 2 x Mini PCI-E card
- **Storage**
    - ■ 1 x SATA interface

1.2.3 System Specification

- **12.1" TFT LCD**

  - 12.1" XGA 420nits, resolution: 1280x1024 (GOT812L-880)

  - 12.1" XGA 800nits, resolution:1280x1024(GOT812H-880)

- **Heat Dispensing Design**

- **Disk drive housing**

  - One 2.5" SATA drive (optional)

- **Net Weight**

  - Kgs(15.52 lb)

- **Dimension (Main Body Size)**

  - 416mm x 348mm x 55mm

- **Operation Temperature**

  - -20℃ to 50℃

- **Relative Humidity**

  - 10% to 90% @ 40℃, Non-Condensing

- **Vibration**

  - 5 to 500 Hz, 1.0 G for SSD

Note

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

2. The GOT812H(L)-880 is suited on serious environment; please choose the wide temperature DRAM and SSD.

3. If the operation temperature is higher than 35℃, the wide temperature HDD is recommended to be used on the device.

4. If the operation temperature is higher than 45℃, the wide temperature CFast and SSD are recommended to be used on the device.

Warning: According the warrantee is adopt for the IP66 guarantee, please choose CFast,SSD and RAM by Axiomtek, also please kindly don't disassemble the system by youself.

1.3   Dimensions

This diagram shows you dimensions and outlines of the GOT812H(L)-880.
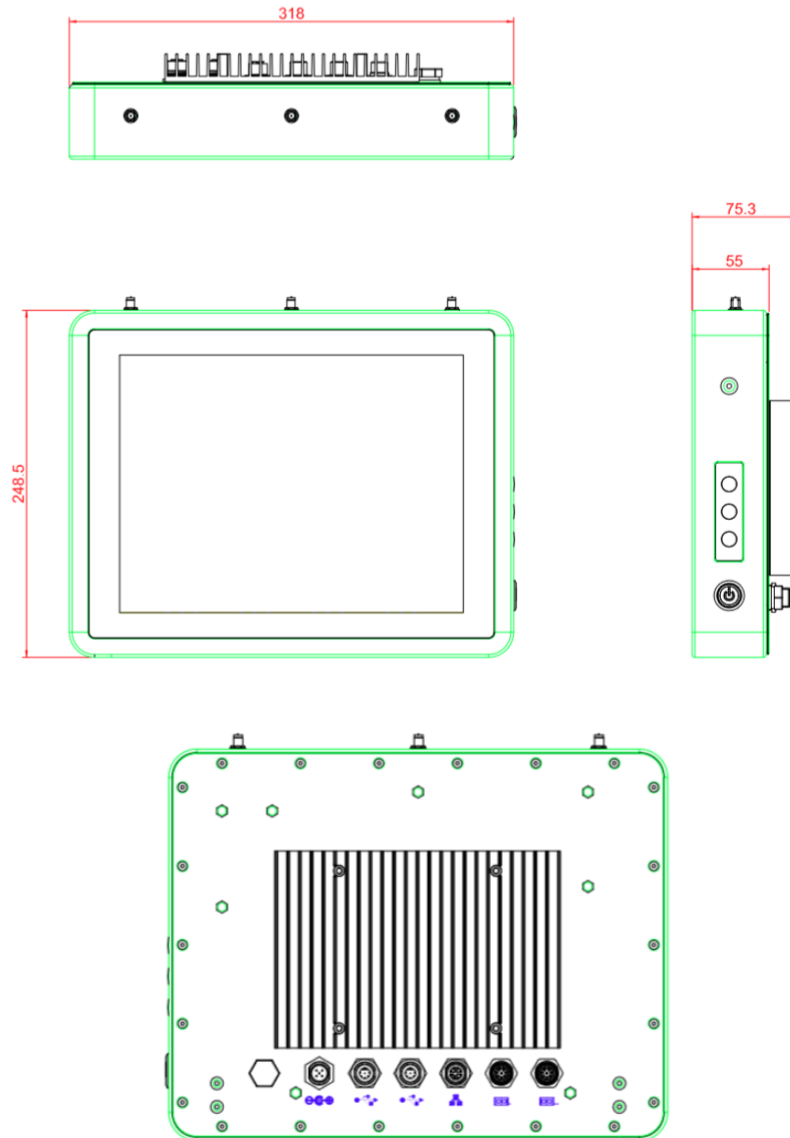
1.4   I/O Outlets

Please refer to the following illustration for I/O locations of the GOT812H(L)-880.
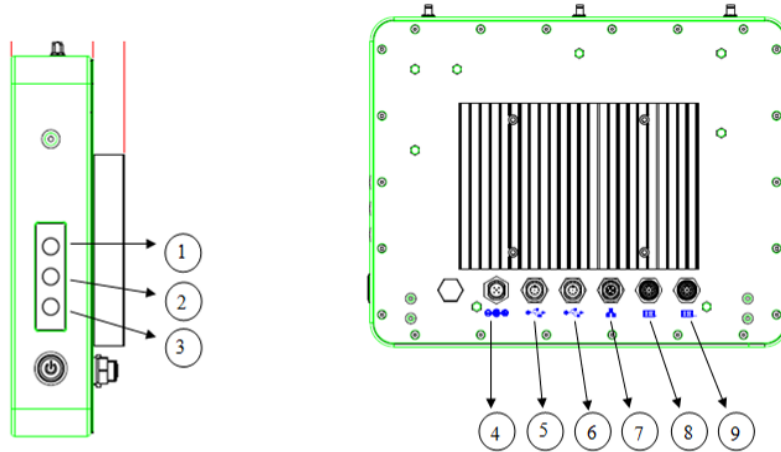
No	Function
1	Backlight ON/OFF
2	Brightness Adjust +
3	Brightness Adjust -
4	DC power connector
5	USB 2.0 x 2
6	USB 2.0 x 2
7	Ethernet
8	COM1(RS232/RS422/RS485;Default:RS232)
9	COM2(RS232)

1.5   Antenna installation (optional)

If you have the optional wireless module, you will find the antenna in the accessory box. The installation instructions are as follows
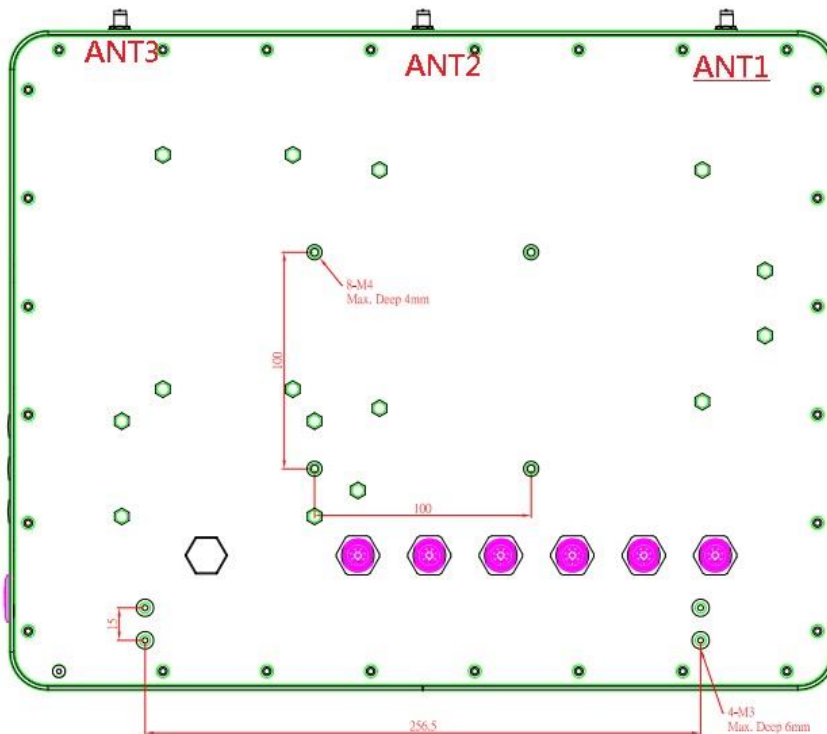
1. If you add optional 2T2R WIFI module, the **ANT1** is MAIN wifi antenna, the **ANT2** is AUX wifi antenna.

2. If you add optional UMTS/HSPA+ module , the **ANT1** is main UMTS/GSM antenna.

3. If you add optional 2T2R WIFI module and UMTS/HSPA+ module , the **ANT1** is MAIN antenna, the **ANT2** is AUX antenna, the **ANT3** is main UMTS/GSM antenna

1.6 Package List

When you receive the GOT812H(L)-880, the bundled package should contain the following items:

- **GOT812H(L)-880 x 1**
- **Driver CD x1**
- **DC cable x1**
- **Power Adapter (optional)**
- **Water-proof Power / USB / LAN / RS-232 cables (optional)**
- **Water-proof Antenna for Wifi or UMTS/HSPA+ (optional)**
- **VESA ARM(optional)**

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

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CHAPTER 2
System Configurations

The GOT812H(L)-880 provides rich I/O ports and flexible expansions for you to meet different demand, for example, CF. The chapter will show you how to install the hardware. It includes:

■ I/O Pin Assignment

■ Hard Disk and DRAM

■ Wireless LAN Card (Optional)

■ Water-proof cables (Optional)

■ Hanging and VESA mounting (Optional)

2.1 I/O Pin Assignment

The GOT812H(L)-880 has two serial ports, COM1 (RS-232/422/485, default RS-232) , COM2(RS-232), Ethernet, USB, and DC-in 12~36V connecter.

2.1.1 Serial Port Interface

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

Pin	RS-232	RS-422	RS-485
1	DCD	TX-	Data-
2	RXD	TX+	Data+
3	TXD	RX+	No use
4	DTR	RX-	No use
	GND	GND	GND
5	DSR	No use	No use
6	RTS	No use	No use
7	CTS	No use	No use
8	RI	No use	No use
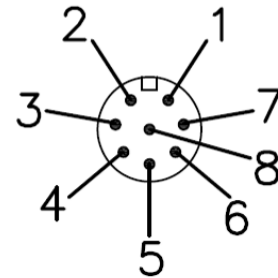
Warning: According the warrantee is adopt for the IP66 guarantee, please inform the COM1 setting when ordering, also please kindly don't disassemble the system by youself.

When receiving information via RS422/485, if there appear some wrong codes, please check whether to connect to GND at both ends. The standard method of RS422/485 is to connect GND at both end and make sure that receiver and transmitter have the common ground.

2.1.2 Ethernet

The GOT812H(L)-880 is equipped with a high performance Plug and Play Ethernet interface, full compliant with IEEE 802.3 standard, and can be connected with a M12 X-CODE LAN connector.

Please refer to detailed pin assignment list below:

Pin	Signal	Pin	Signal
L1	MDI0P	L5	MDI3P
L2	MDI0N	L6	MDI3N
L3	MDI1P	L7	MDI2N
L4	MDI1N	L8	MDI2P

2.1.3 USB Port

The USB is a Universal Serial Bus (compliant with USB 2.0 (480Mbps)) connector on the rear I/O. It is commonly used for installing USB peripherals such as keyboard, mouse, scanner, etc.

Pin	Signal	Pin	Signal
1	USB VCC (+5V level)	5	USB VCC (+5V level)
2	USB #0_D-	6	USB #1_D-
3	USB #0_D+	7	USB #1_D+
4	GND	8	GND
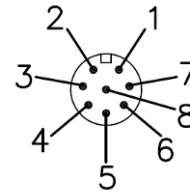
2.1.4 DC Power Jack w/ M12 connector

Pin	Signal
1	+9~36V
2	+9~36v
3	GND
4	GND
5	Earth Gound

2.2 Water-proof Cables

GOT-800 series uses specific M12 connector for water-proof. Therefore you will order each cable base on application.

There are four kind cables of GOT817, by the optional, if you will apply the USB, COM or Etherent then you can select a cable for the package.

The Power cable included in the accessory box, when you will need the power adapter, also it can be sesected by optional.

2.2.1 Power cable

Please follow pin assignement for the power input.

Pin	Signal
V+	DC 12~36V power input
⊖	Earth Ground
GND	GND
GND	GND

2.2.2 Power adapter for GOT812H(L)-880

If you order the power adapter, you should choose the power cord type for your location. The power adapter is +24VDC(70W), 110-240V which is combined M12 connector.

2.2.3 COM

There are two COM cables which are combined M12 connector. Also, you can refer 2.1.1 for the Series port pin assignement.

2.2.4 USB cables

The USB cable is combined M12 connector for water-proof. It is extended two USB ports for applicaton.

2.3   Mounting Method

There are two mounting ways for the GOT812H(L)-880. One is suspension, the other is VESA mount.

2.3.1 VESA mounting

The GOT812 can accept VESA 100.

2.3.2 VESA-ARM Mounting

Step 1   Find out the 4 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.

Step 3   VESA mounting Installation completed.

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.

Some of navigation keys differ from one screen to another.

Note

← **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.
+− **Plus/Minus**	The Plus and Minus <Arrow> keys allow you to change the field value of a particular setup item.
Tab	The <Tab> key allows you to select setup fields.
F1	The <F1> key allows you to display the General Help screen.
F2	The <F2> key allows you to load previous value
F3	The <F3> key allows you to Load Optimized Defaults.
F4	The <F4> key allows you to save any changes you have made and exit Setup. Press the <F4> key to save your changes.
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.
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.

3.2 Main Menu
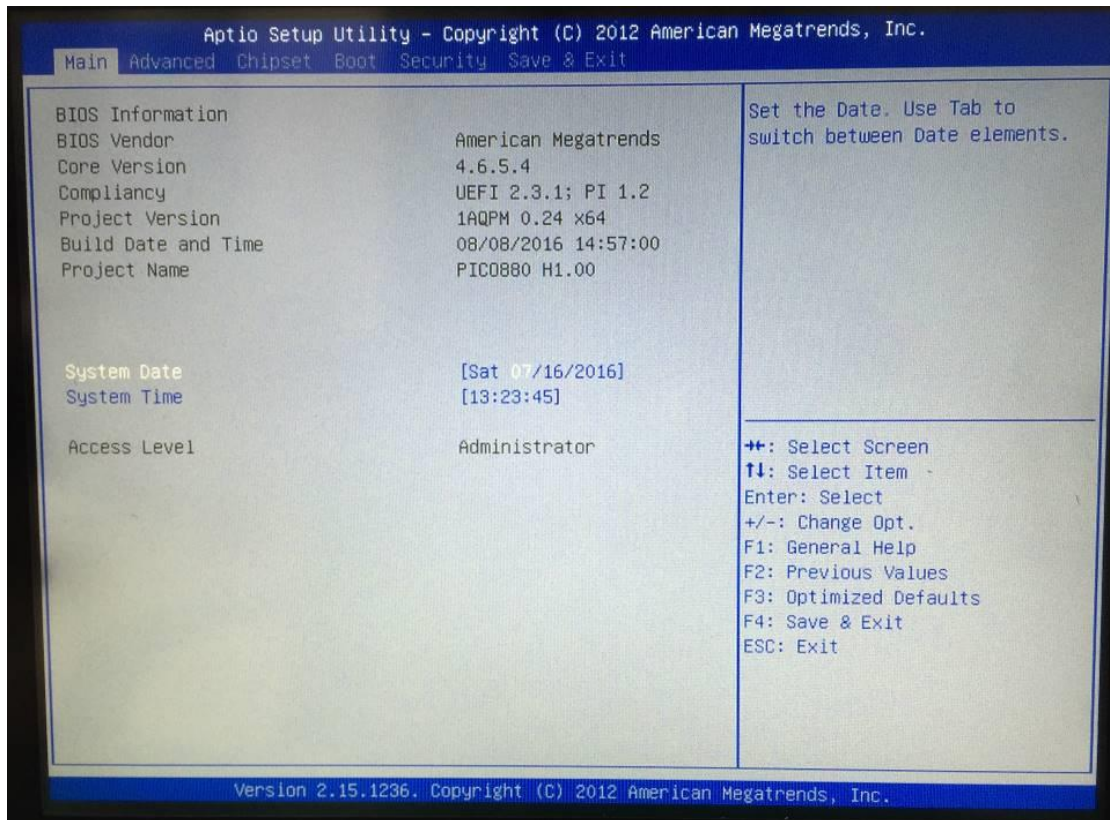
● **System Time/Date**

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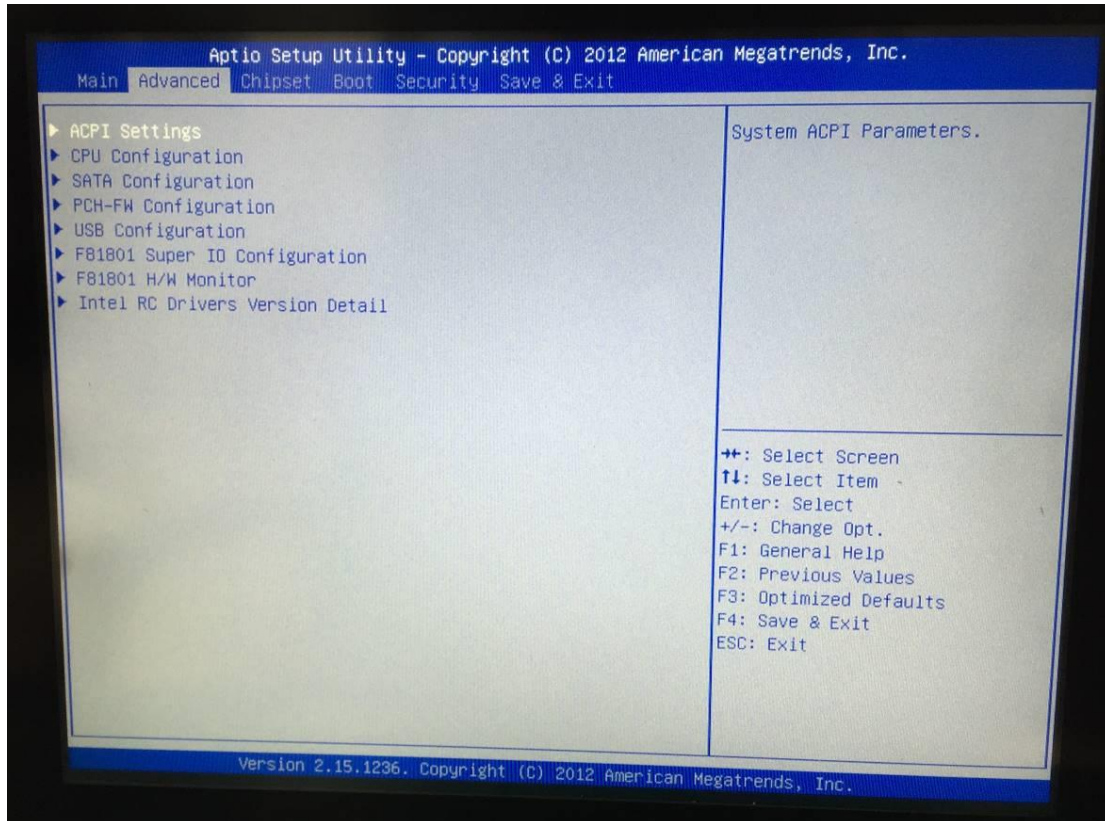
The Advanced menu allows users to set configuration of the CPU and other system devices. You can select any of the items in the left frame of the screen to go to the sub menus:

■ ACPI Settings

■ CPU Configuration

■ SATA Configuration

■ PCH-FW Configuration

■ USB Configuration

■ F81801 Super IO Configuration

■ F81801 H/W Monitor

■ Intel RC Drivers Version Detail

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).

●
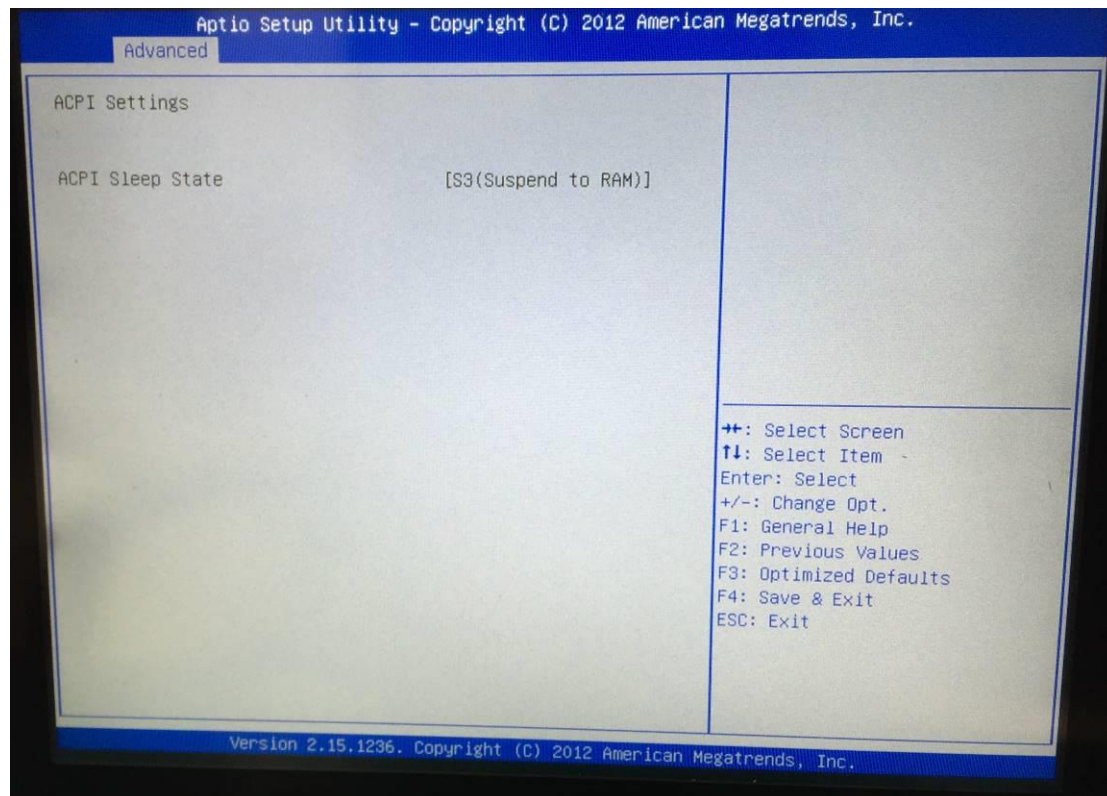
● **CPU Configuration**

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

●
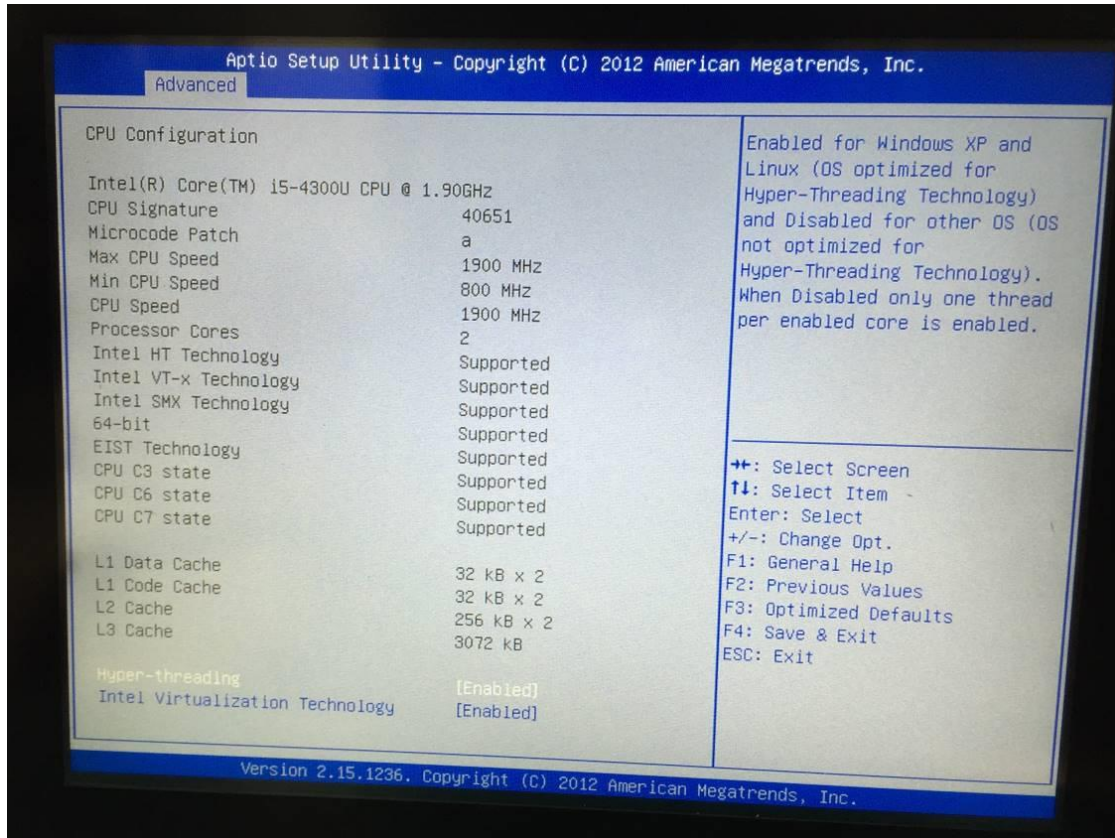
● **SATA Configuration**

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.
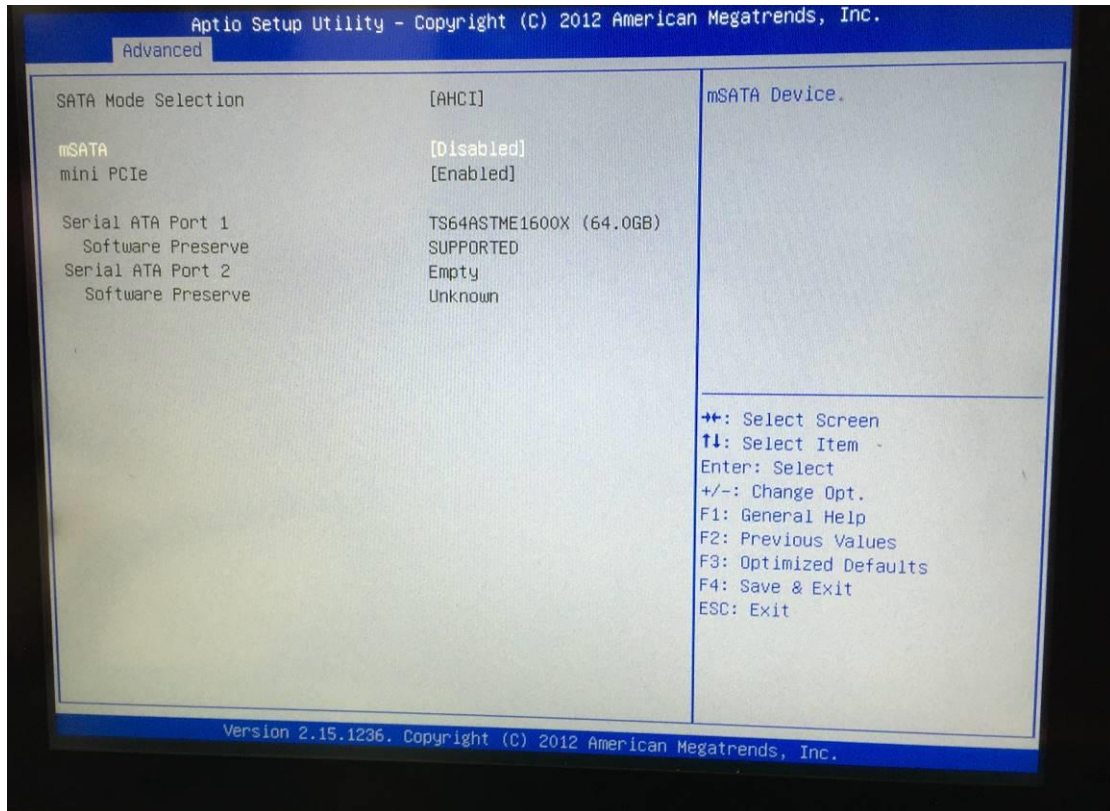
SATA Mode Selection

AHCI (Advanced Host Controller Interface) mode is how SATA controller(s) operate.

mSATA

Enable or disable mSATA device. The default is Disabled.

mini PCIe

When mSATA is enabled, mini PCIe is disabled automatically and vice versa.

Serial ATA Port 1

It shows the device installed in connector SATA1.

Serial ATA Port 2

It shows the mSATA card installed when mSATA is enabled.

●

● **PCH-FW Configuration**

This screen shows the ME Firmware version,and its detail information.

```
          Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
          Advanced

  ME FW Version              9.5.10.1580
  ME Firmware Mode           Normal Mode
  ME Firmware Type           Full Sku Firmware
  ME Firmware SKU            5MB




                                                    →←: Select Screen
                                                    ↑↓: Select Item
                                                    Enter: Select
                                                    +/-: Change Opt.
                                                    F1: General Help
                                                    F2: Previous Values
                                                    F3: Optimized Defaults
                                                    F4: Save & Exit
                                                    ESC: Exit




          Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```

●
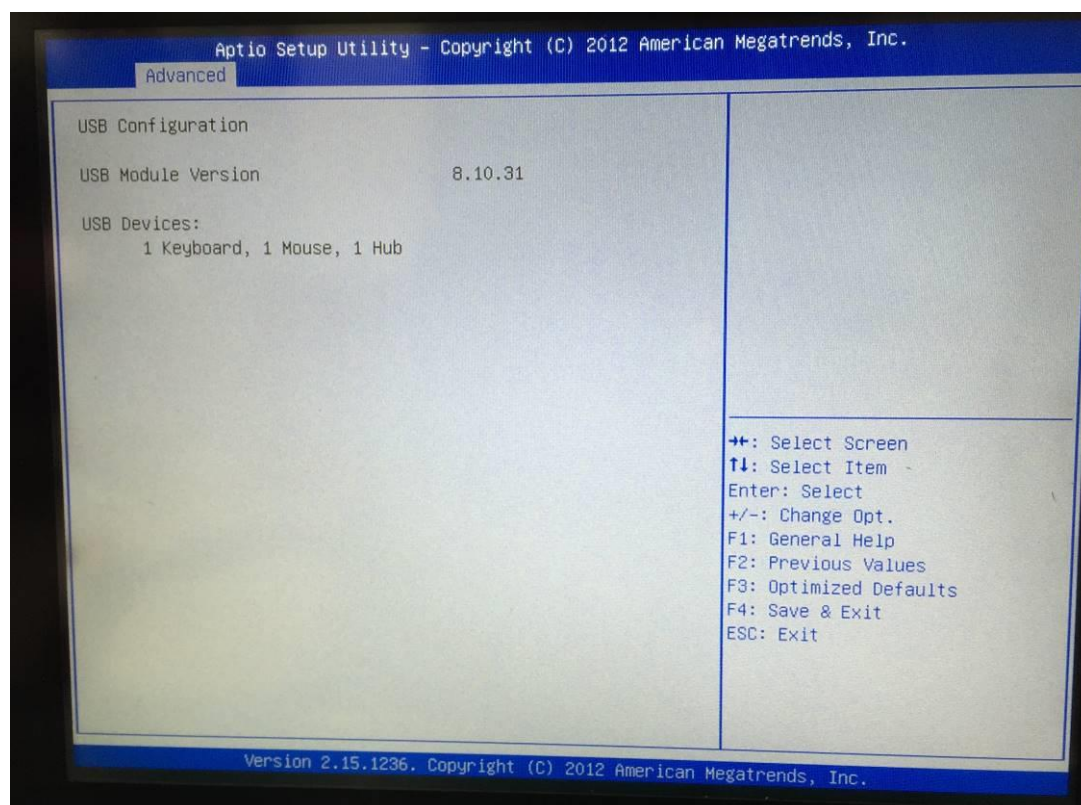
● **USB Configuration**

● *USB Devices*

Display all detected USB devices which are installed in connector CN9 on PICO880 or CN2 and CN3 on AX93186 of I/O Board.

● **F81801 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 "▶", please press <Enter> for more options

```
            Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
      Advanced

  F81801 Super IO Configuration                                    Set Parameters of Serial Port
                                                                   1 (COM1)
  F81801 Super IO Chip                    F81801
 ▶ Serial Port 1(COM1) Configuration
 ▶ Serial Port 2(COM2) Configuration




                                                                   →←: Select Screen
                                                                   ↑↓: Select Item
                                                                   Enter: Select
                                                                   +/-: Change Opt.
                                                                   F1: General Help
                                                                   F2: Previous Values
                                                                   F3: Optimized Defaults
                                                                   F4: Save & Exit
                                                                   ESC: Exit


            Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```

Serial Port 1~2 Configuration

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

● **Serial Port 1 Configuration**

```
          Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
         Advanced

 Serial Port 1(COM1) Configuration                          Setting UART mode to RS232
                                                            RS485(Half Duplex)
 Serial Port                      [Enabled]                 RS422/485(Full Duplex)
 Device Settings                  Reset Required

 Mode setting                     [RS232]

                            ┌──────Mode setting──────┐
                            │ RS232                  │
                            │ RS485                  │
                            │ RS422                  │
                            └────────────────────────┘
                                                            →←: Select Screen
                                                            ↑↓: Select Item
                                                            Enter: Select
                                                            +/-: Change Opt.
                                                            F1: General Help
                                                            F2: Previous Values
                                                            F3: Optimized Defaults
                                                            F4: Save & Exit
                                                            ESC: Exit



          Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```

Mode Setting

Use this option to set RS-232/RS-422/RS-485 mode.

● **Serial Port 2 Configuration**

```
          Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
         Advanced

 Serial Port 2(COM2) Configuration                          Enable or Disable Serial Port
                                                            (COM)
 Serial Port                      [Disabled]
 Device Settings                  Reset Required




                                                            →←: Select Screen
                                                            ↑↓: Select Item
                                                            Enter: Select
                                                            +/-: Change Opt.
                                                            F1: General Help
                                                            F2: Previous Values
                                                            F3: Optimized Defaults
                                                            F4: Save & Exit
                                                            ESC: Exit


          Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```

● **F81801 H/W Monitor**

This screen monitors hardware health status.

```
          Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
   Advanced

Pc Health Status

CPU temperature                   : +46 C
System temperature                : +40 C
VCORE                             : +1.696 V
5V                                : +4.960 V




                                                    →←: Select Screen
                                                    ↑↓: Select Item
                                                    Enter: Select
                                                    +/-: Change Opt.
                                                    F1: General Help
                                                    F2: Previous Values
                                                    F3: Optimized Defaults
                                                    F4: Save & Exit
                                                    ESC: Exit



          Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```

This screen displays the temperature of system and CPU, and system voltages (VCORE and 5V).

● **Intel RC Drivers Version Detail**

3.4 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.

```
          Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
     Main   Advanced   Chipset   Boot   Security   Save & Exit

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







                                                        →←: Select Screen
                                                        ↑↓: Select Item
                                                        Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F2: Previous Values
                                                        F3: Optimized Defaults
                                                        F4: Save & Exit
                                                        ESC: Exit



          Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```
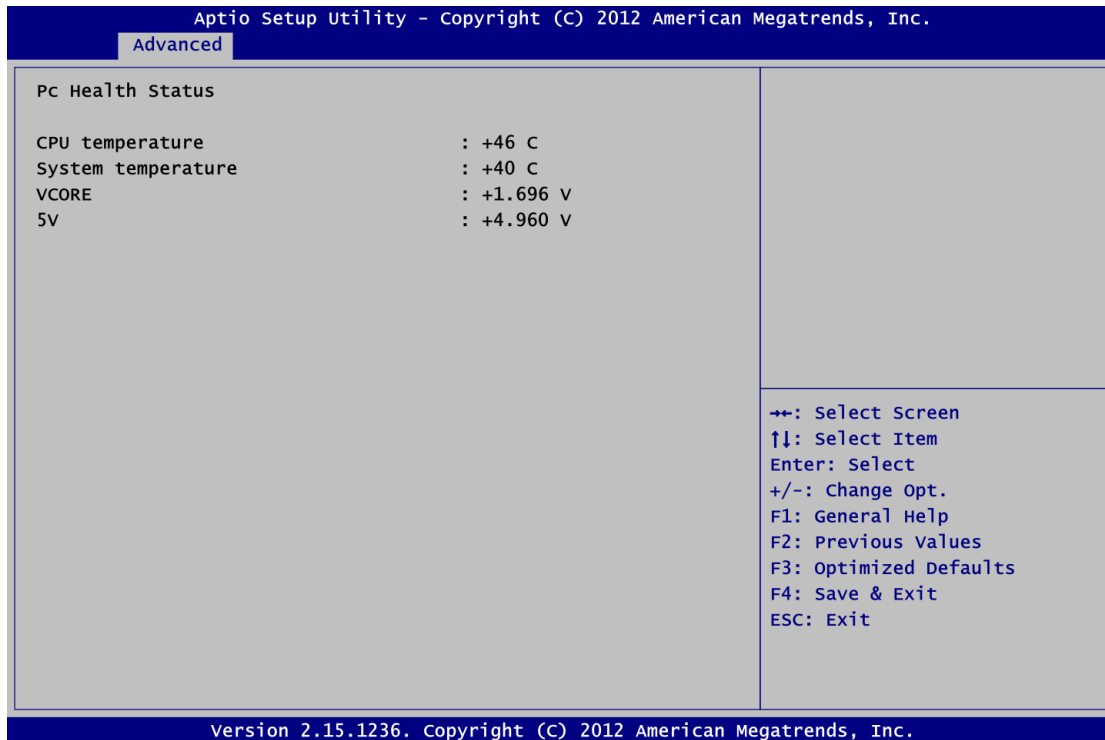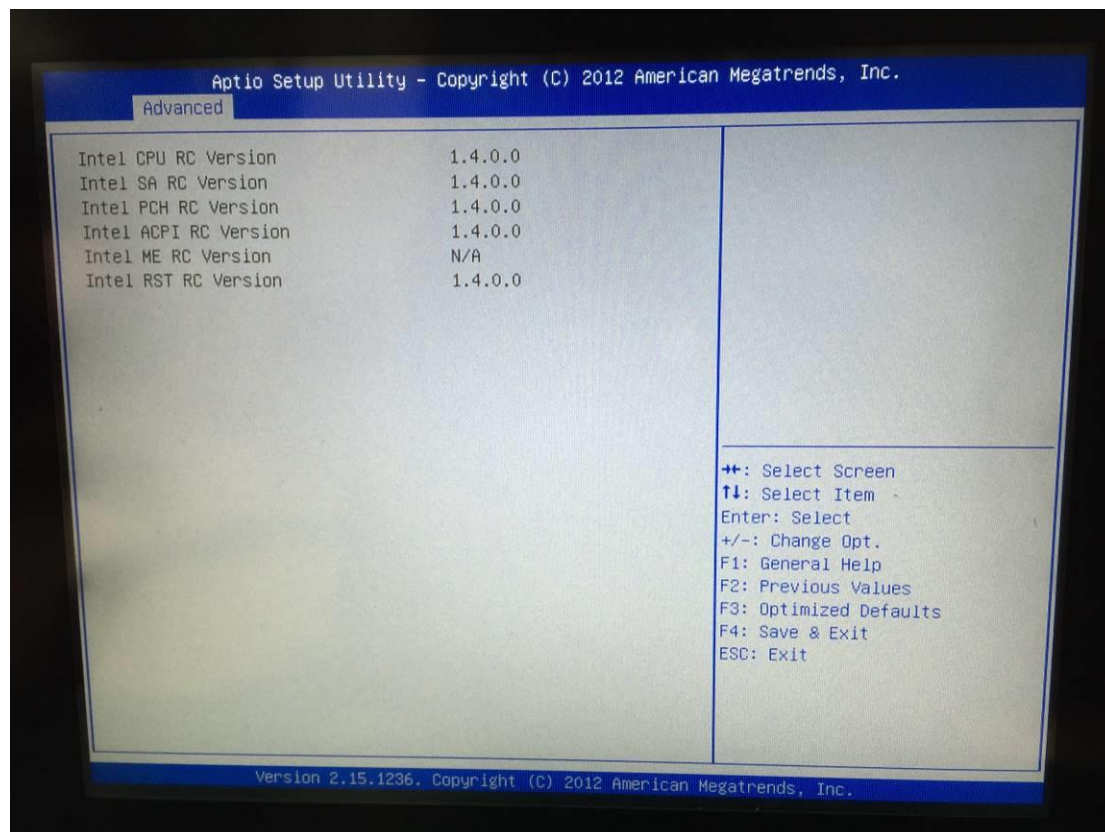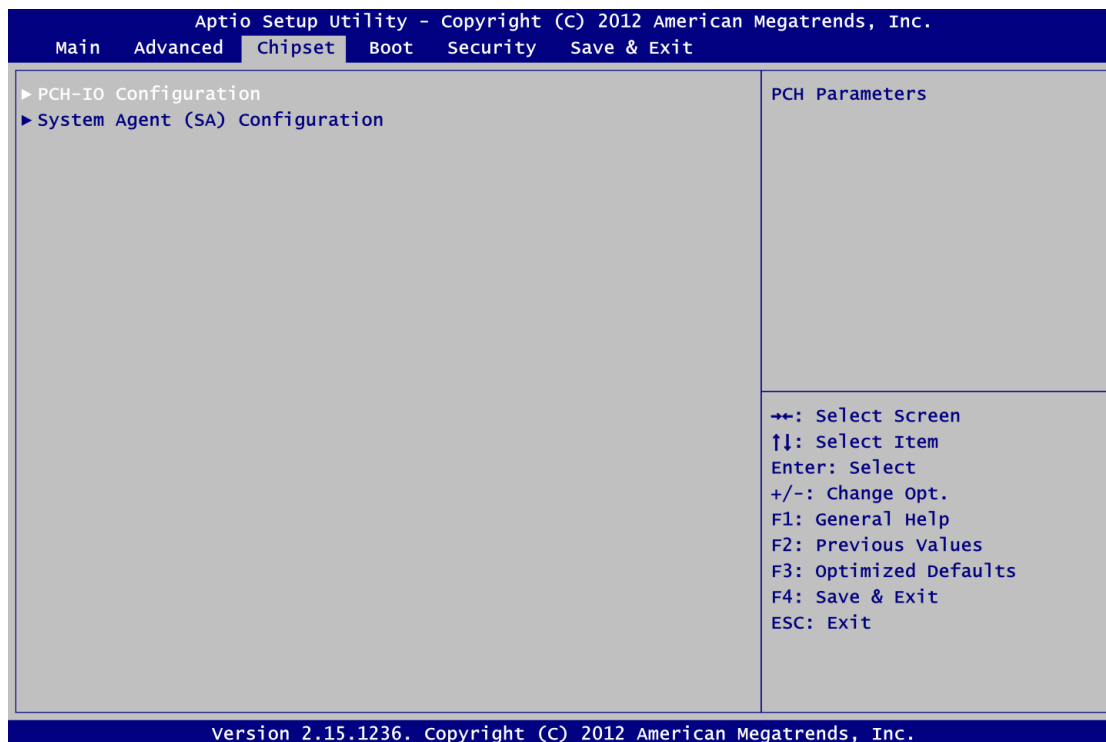
● **PCH-IO Configuration**

This screen shows memory information. For items marked with " ▶ ", please press <Enter> for more options.
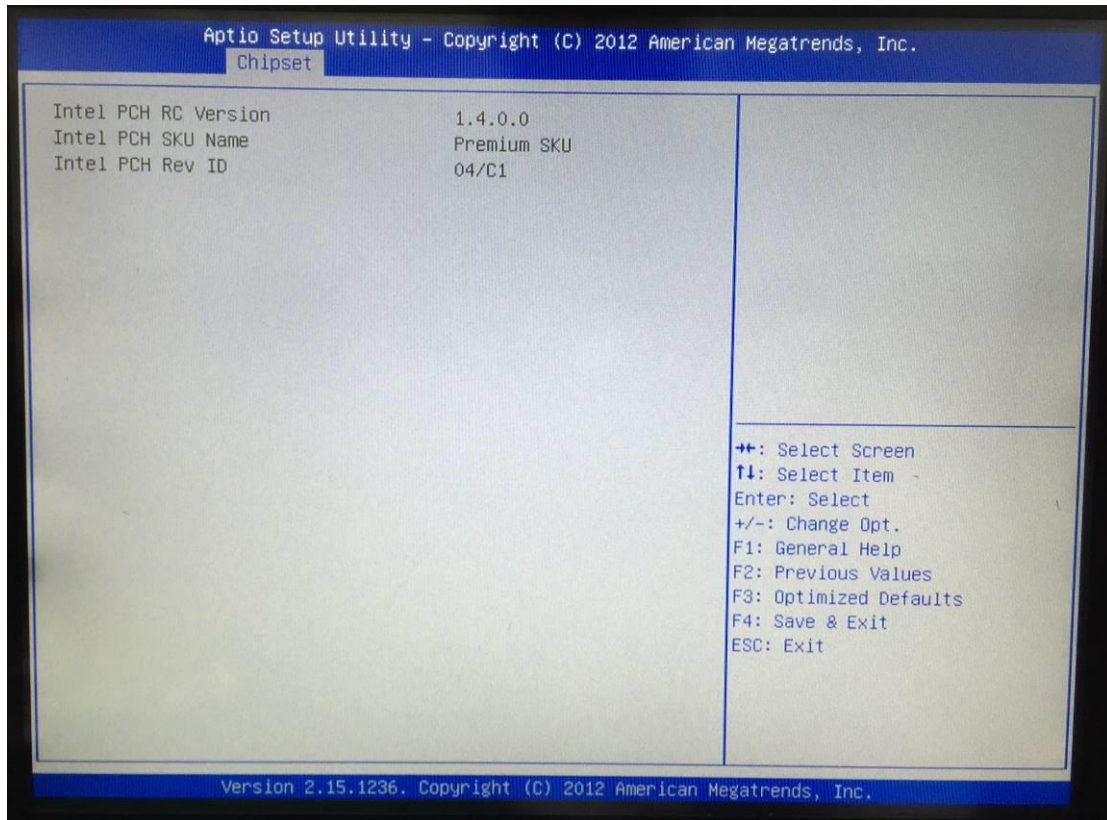
● **System Agent (SA) Configuration**

This screen shows System Agent version information and provides function for specifying related parameters.
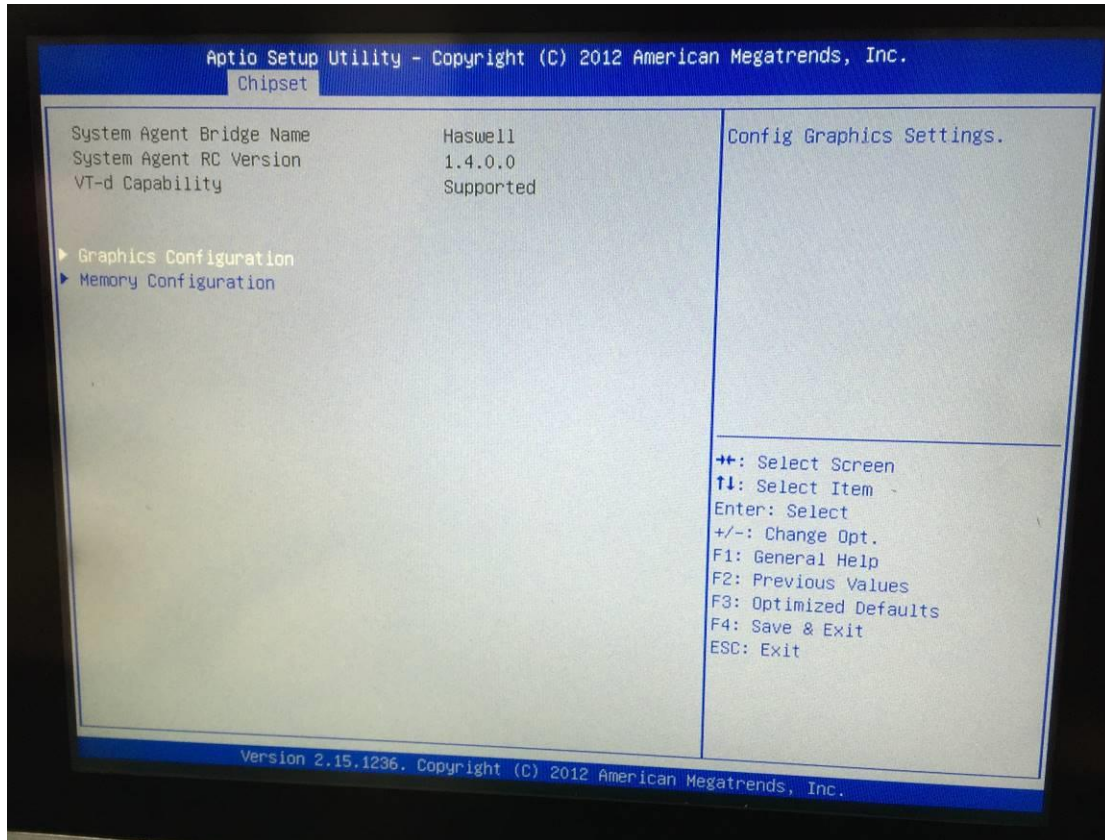
Graphics Configuration

Use this item to configure internal graphics controller.

Memory Configuration

Use this item to refer to the information related to system memory.

● **Graphics Configuration**
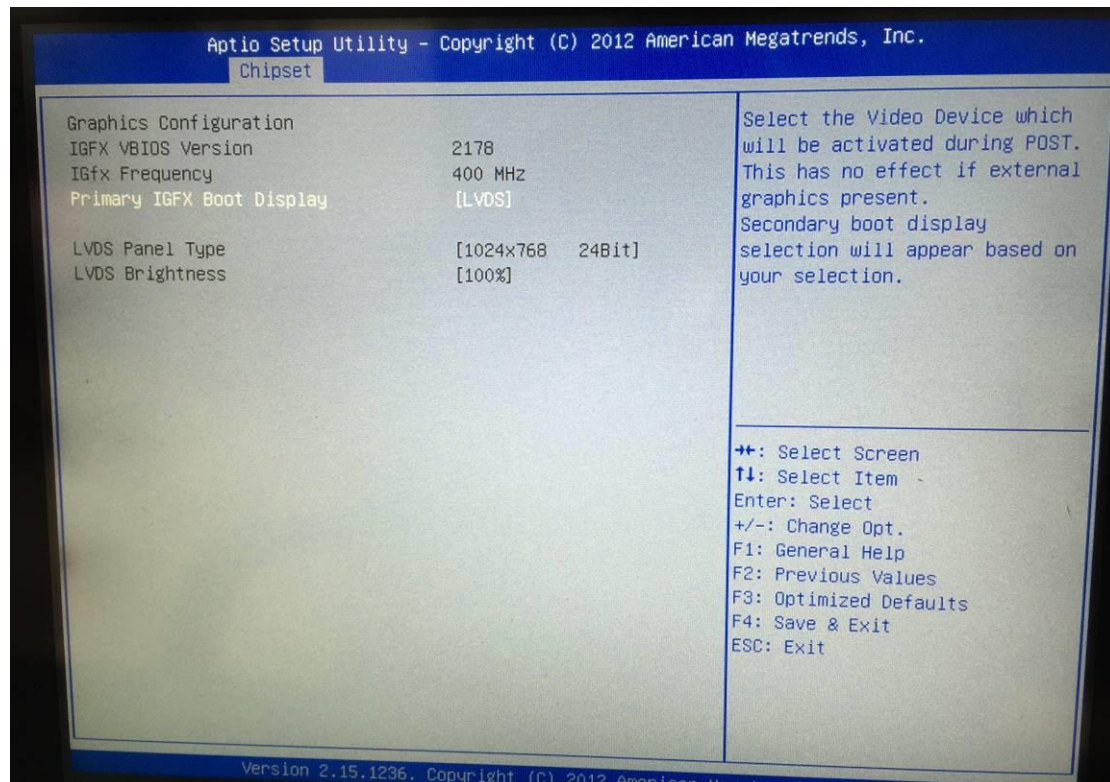
● **Memory Information**

This screen shows the system memory information.

```
            Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
                   Chipset

   Memory Information

   Memory RC Version              1.4.0.3
   Memory Frequency               1600 Mhz
   Total Memory                   8192 MB (DDR3)
   Memory Voltage                 1.35v
   DIMM#0                         8192 MB (DDR3)
   CAS Latency (tCL)              11
   Minimum delay time
       CAS to RAS (tRCDmin)       11
       Row Precharge (tRPmin)     11
       Active to Precharge (tRASmin)  28
   XMP Profile 1                  Not Supported          →←: Select Screen
   XMP Profile 2                  Not Supported          ↑↓: Select Item
                                                         Enter: Select
                                                         +/-: Change Opt.
                                                         F1: General Help
                                                         F2: Previous Values
                                                         F3: Optimized Defaults
                                                         F4: Save & Exit
                                                         ESC: Exit




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```

3.5 BootMenu

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

```
                 Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
     Main   Advanced   Chipset    Boot   Security   Save & Exit

   Boot Configuration                                           Select the keyboard NumLock
   Bootup NumLock State                 [On]                    state

   Quiet Boot                           [Disabled]

   Boot Option Priorities
   Boot Option #1                       [P0: ST750LX003-1AC1...]

   Hard Drive BBS Priorities
   CSM parameters

                                                                →←: Select Screen
                                                                ↑↓: Select Item
                                                                Enter: Select
                                                                +/-: Change Opt.
                                                                F1: General Help
                                                                F2: Previous Values
                                                                F3: Optimized Defaults
                                                                F4: Save & Exit
                                                                ESC: Exit


                 Version 2.15.1236. Copyright (C) 2012 American Megatrends, Inc.
```
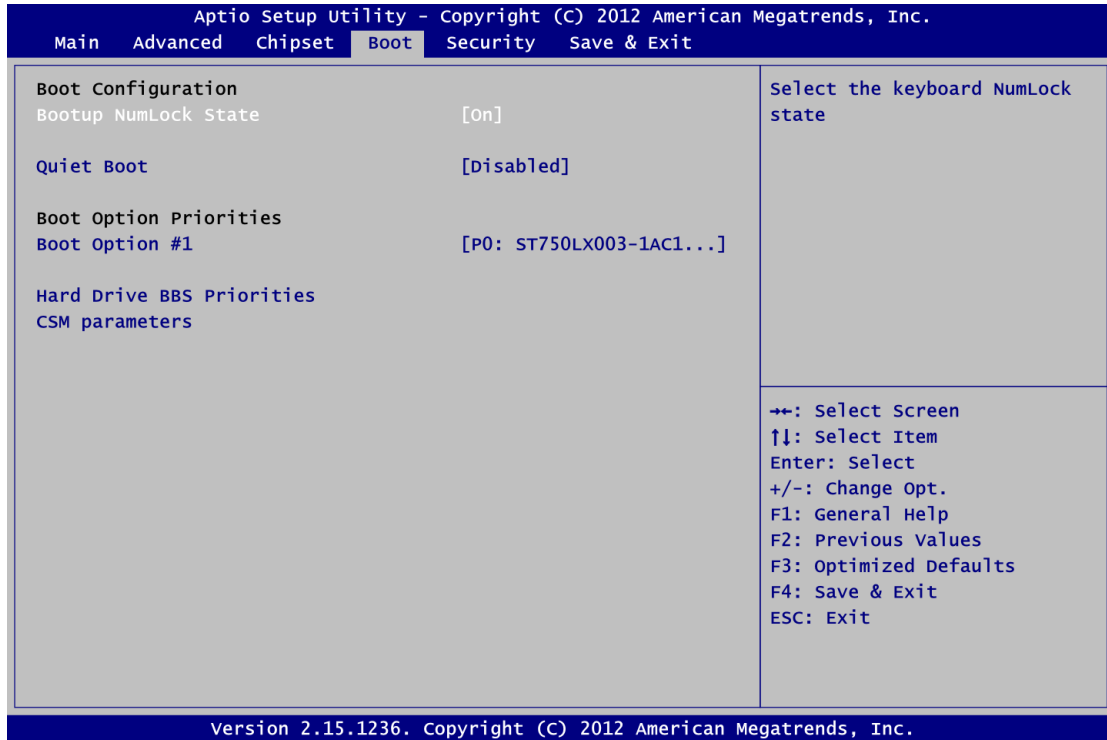
Bootup NumLock State

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.
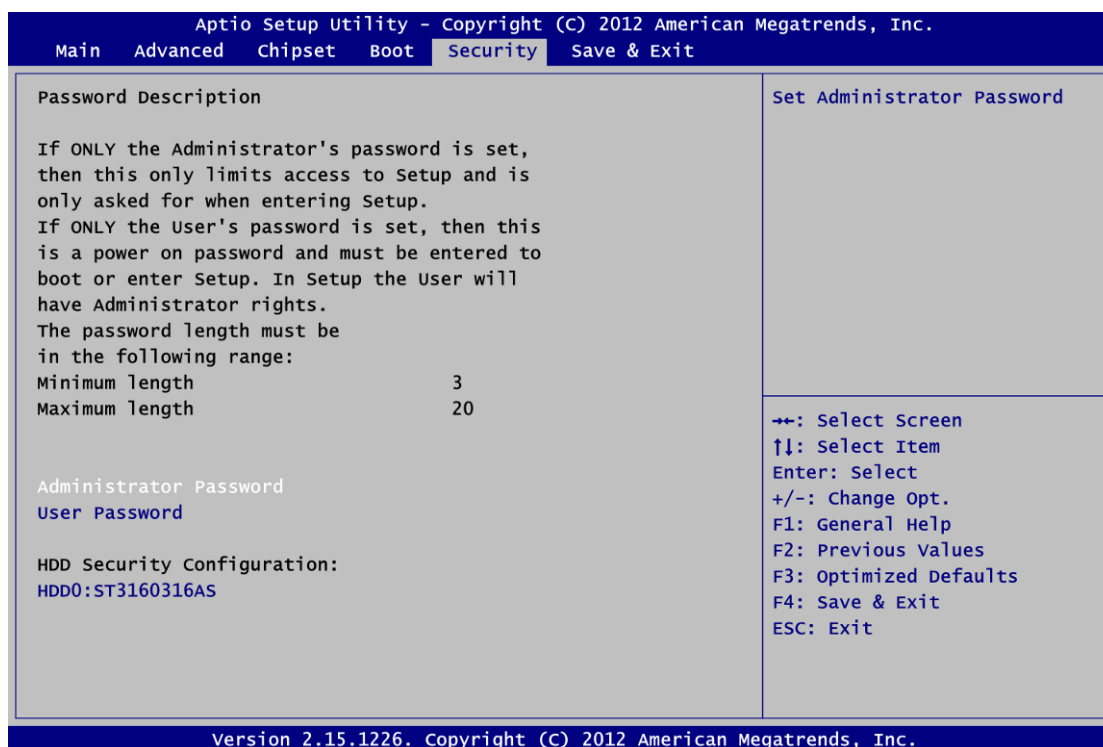
Boot Option Priorities

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

Hard Drive BBS Priorities

Set the order of the legacy devices in this group.

3.6   Security Menu

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

```
         Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.
    Main   Advanced   Chipset   Boot   Security   Save & Exit

  Password Description                              Set Administrator Password

  If ONLY the Administrator's password is set,
  then this only limits access to Setup and is
  only asked for when entering Setup.
  If ONLY the User's password is set, then this
  is a power on password and must be entered to
  boot or enter Setup. In Setup the User will
  have Administrator rights.
  The password length must be
  in the following range:
  Minimum length                    3
  Maximum length                    20
                                                   →←: Select Screen
                                                   ↑↓: Select Item
                                                   Enter: Select
  Administrator Password                           +/-: Change Opt.
  User Password                                    F1: General Help
                                                   F2: Previous Values
  HDD Security Configuration:                      F3: Optimized Defaults
  HDD0:ST3160316AS                                 F4: Save & Exit
                                                   ESC: Exit



         Version 2.15.1226. Copyright (C) 2012 American Megatrends, Inc.
```

Administrator Password

This item indicates whether an administrator password has been set (installed or uninstalled).

User Password

This item indicates whether an user password has been set (installed or uninstalled).

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) 2013 American Megatrends, Inc.
     Main  Advanced  Chipset  Security  Boot  Save & Exit

    Save Changes and Exit                          Exit system setup after saving
    Discard Changes and Exit                       the changes.
    Save Changes and Reset
    Discard Changes and Reset

    Save Options
    Save Changes
    Discard Changes

    Restore Defaults
    Save as User Defaults
    Restore User Defaults

    Boot Override                                  ++: Select Screen
    UEFI: Built-in EFI Shell                       ↑↓: Select Item
                                                   Enter: Select
                                                   +/-: Change Opt.
                                                   F1: General Help
                                                   F2: Previous Values
                                                   F3: Optimized Defaults
                                                   F4: Save & Exit
                                                   ESC: Exit




            Version 2.16.1242. Copyright (C) 2013 American Megatrends, Inc.
```

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.

Discard Changes and Reset

Select this option to quit Setup without making any permanent changes to the system configuration and reboot the computer. Select Discard Changes and Reset from the Save & Exit menu and press <Enter>. Select Yes to discard changes and reset.

Save Changes

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

Discard Changes

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

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>.

Save as User Defaults

Select this option to save system configuration changes done so far as User Defaults. Select Save as User Defaults from the Save & Exit menu and press <Enter>.

Restore User Defaults

It automatically sets all Setup options to a complete set of User Defaults when you select this option. Select Restore User 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.

Launch EFI Shell from filesystem device

Attempt to launch EFI Shell application (Shellx64.efi) from one of   the available filesystem devices.

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CHAPTER 4
Drivers Installation

4.1   System

GOT812H(L)-880 supports Windows 7, Windows 8/8.1,WES 7 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
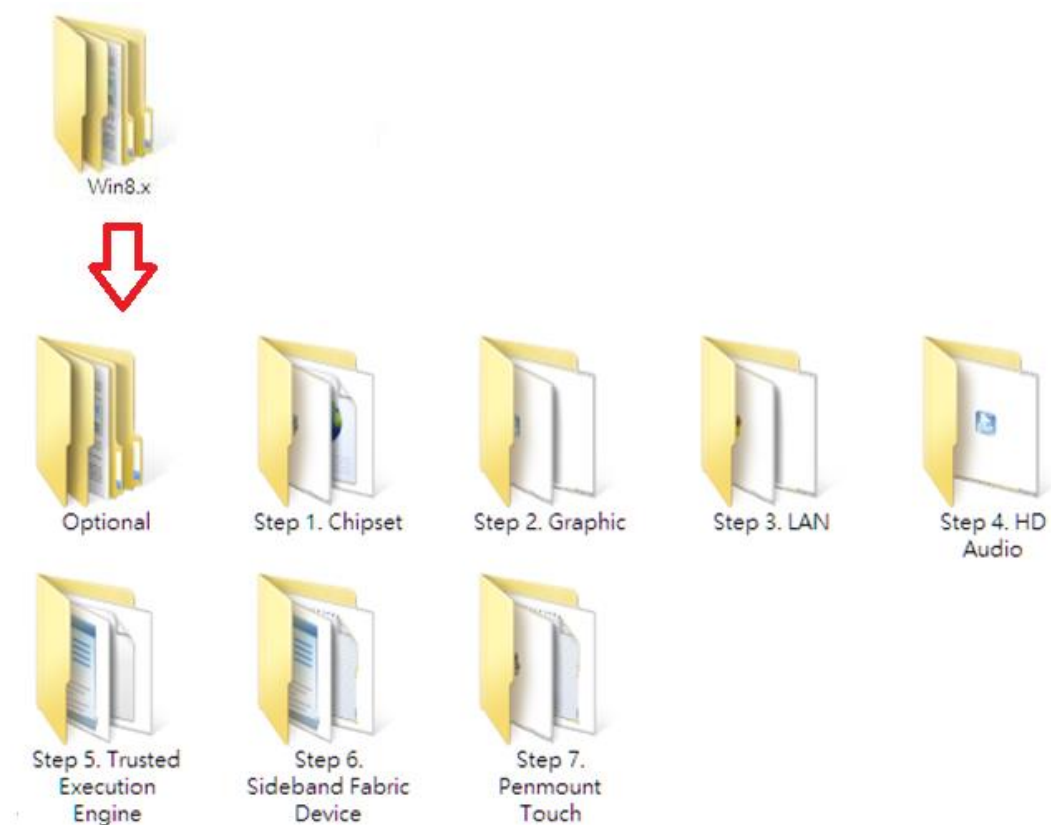
1.   Insert Driver CD and select the "\Drivers".
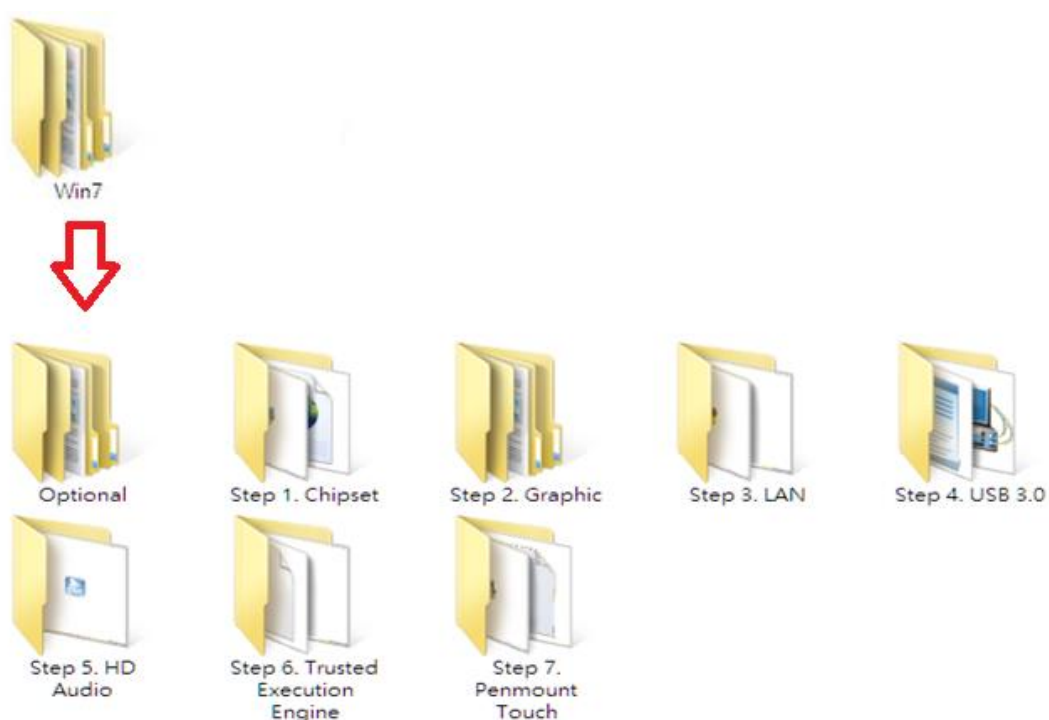
2.   Select all files and follow the installing procedure.

	If you didn't install graphics driver, it only can be resumed via VGA display when VGA and DP go to sleep mode.
Note	

4.1.2　Win 8/8.x

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

2.　Select all files and follow the installing procedure.

If you didn't install graphics driver, it only can be resumed via VGA display when VGA and DP go to sleep mode.

Note

4.2   Touch Screen

The GOT812H(L)-880 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

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

4.2.2   Driver Installation- Windows 7/8.x

The GOT812H(L)-880 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.
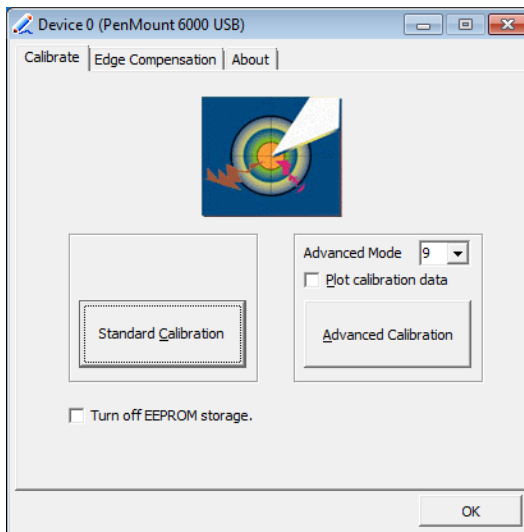
1.   Insert Driver CD and follow the path to select the "\Drivers\Step 7 - Touch".

Step 7.
Penmount
Touch
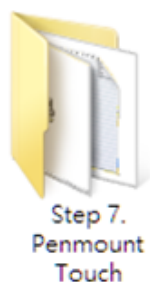
2.   Follow the installing procedure and press OK.

3.   Click Start menu and select "PenMount Utilties"; and then, a "PenMount Control Panel" pops out.
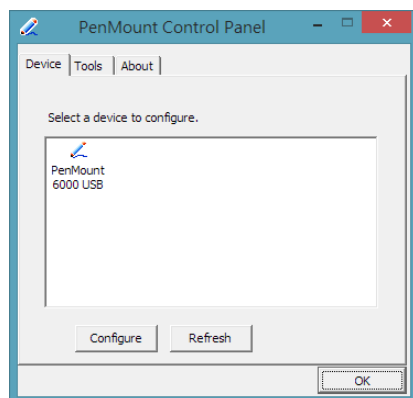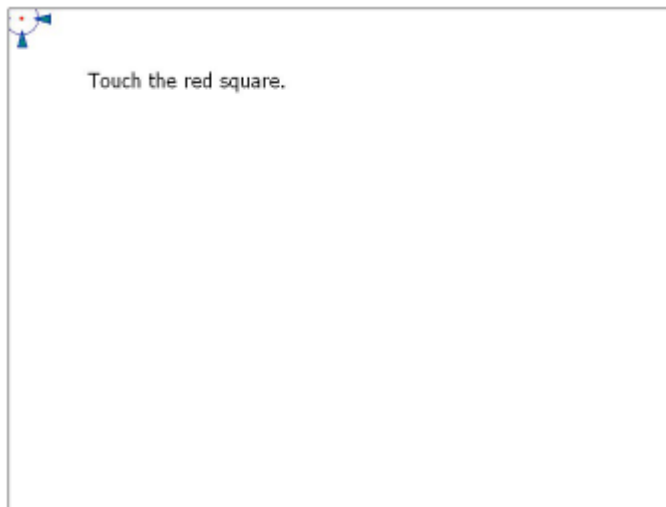
4.   Select the "Standard Calibrate" tab.

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 GOT812H(L)-880 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**TM** 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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