AXIOMTEK

GOT615-801

**15.6" WXGA TFT LCD Fanless
Extended Temperature
PANEL PC**

User's Manual

RoHS

Disclaimers

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Safety Approvals

◆ CE Marking

◆ FCC Class B

◆   FCC Compliance

This equipment has been tested in compliance with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are meant to provide reasonable protection against harmful interference in a residential installation. If not installed and used in accordance with proper instructions, this equipment might generate or radiate radio frequency energy and cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

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

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

Safety Precautions

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

1.   The GOT615-801 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 GOT615-801 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 GOT615-801 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 GOT615-801 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 GOT615-801, 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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Table of Contents

CHAPTER 1
INTRODUCTION

This chapter contains general information and detailed specifications of the GOT615-801. Chapter 1 includes the following sections:

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

1.1 General Description

The GOT615-801 adopts a 15.6-inch WXGA color TFT LCD and low power consumption Intel® AtomTM processor D525 1.8 GHz to provide excellent computing performance and thermal resistance.With the growing demand of wireless application, it provides one Mini card slot.

The fanless and wireless platforms are especially designed for operating under heavy-duty environment. The customers have instant access wireless LAN. Including transportation, train, control platform of ships, and oil pipe monitoring systems

Wide Operating Temperature Range

The GOT615-801 features a unique extended temperature
The temperature range from -5°C ~ +45°C, with fanless cooling system and compact design for harsh environment.
The low power Intel® Atom^{TM} processor D525 1.8GHz, making the platform a power-efficient solution

Reliable and Stable Design

The GOT615-801 adopts a fan-less cooling system and a CompactFlash™ card, which makes it especially suitable for vibration-heavy environments, best for the transportation, ship, and industrial machinery markets. For high capacity storage requirement, GOT615-801 can work under 2G (5 ~ 500Hz, random for CF card) in operation mode with a patent of anti-vibration design. The patent improves the system reliability and sustainability.

WLAN Antenna Supported
The GOT615-801 provides a PCI Express Mini card slot and WLAN antenna for wireless network connections. By simply plugging in the wireless LAN card, customers can use the unit in a wireless environment.

More Features
GOT615-801 utilizes one 204-pin DDR3 667/800MHz SODIMM system memory max. up to 4GB,
One SATA HDD and one CompactFlash^{TM} slot and CFCard interface
It provides a full set of I/O including
2 x RS-232,1x RS-232/422/485, 4 x USB 2.0, 1 x audio (line-out),
2 x Gigabit Ethernet and 1 x VGA.
Additionally, this slim unit supports VESA (option) / WALL mount.

1.2 Specifications

1.2.1 Main CPU Board

- **CPU**
  - Intel® Atom™ D525 Processor with (1M Cache, 1.8 GHz)
- **System Chipset**
  - Intel® System Controller Hub ICH8M
- **BIOS**
  - American Megatrends Inc. BIOS 4Mbit with RPL/PXE
- **System Memory**
  - One 204-pin DDR3 667/800 MHz SO-DIMM socket
  - Maximum memory up to 4GB

1.2.2 I/O System

- **Standard I/O**
  - Two RS-232 and one RS-232/422/485
  - Four USB 2.0
- **Ethernet**
  - 1 x INTEL 82567V for Gigabit/Fast Ethernet
  - 1 x INTEL 82583V for Gigabit/Fast Ethernet
- **Audio**
  - One Line-out(Realtek ALC662)
- **Expansion**
  - One of Mini PCIe Port (internal)
- **Storage**
  - One slot for CF card(optional)
  - One SATA(optional)
- **Power connector**
  - Screw type power connector
  - Power Rating: 12V, 2.6A

- **Key-pad**
  - LCD backlight adjustment :3 keys(LCD On/Off, Brightness Down/Up)

1.2.3   System Specification

- 15.6" WXGA(1366x768) LCD with LED backlight
- 5-wire resistive Touch Screen(Higgestec)
- Fanless Heat Dispensing Design
- IP65, NEMA 4 rugged protection, aluminum front bezel
- Disk drive housing:
  - One 2.5" SATA drive
- Net Weight : 3.38kgs
- Dimension (Main Body Size)
  - 390x240x59.5
- Operation Temperature
  - -5°C ~ +45°C
- Relative Humidity
  - 10% to 90% @ 40℃, Non-Condensing
- Power input
  - 12VDC with screw type power connector
  - Power Rating: 12V, 2.6A
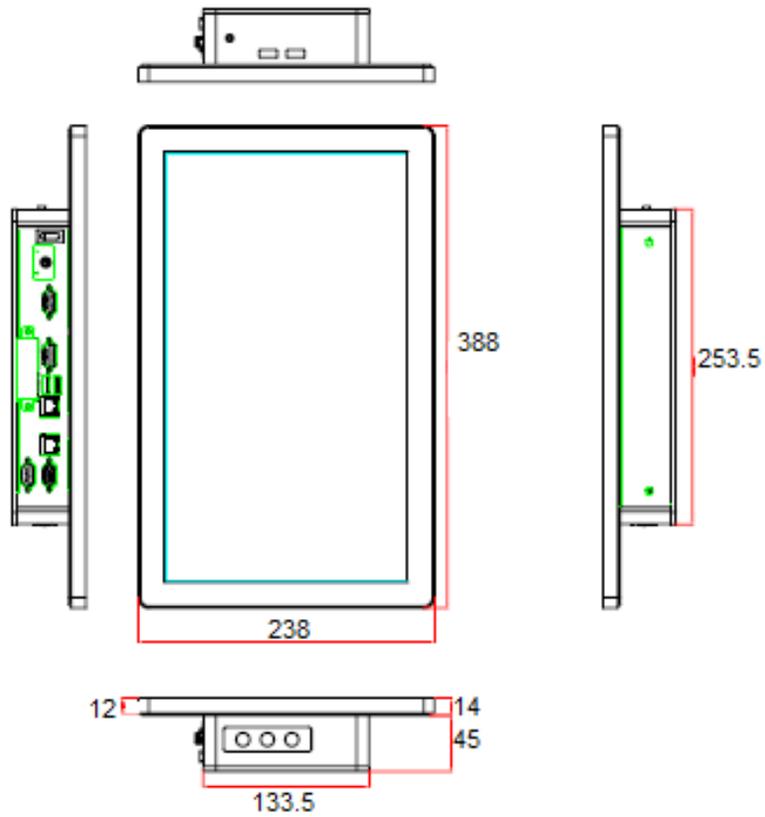
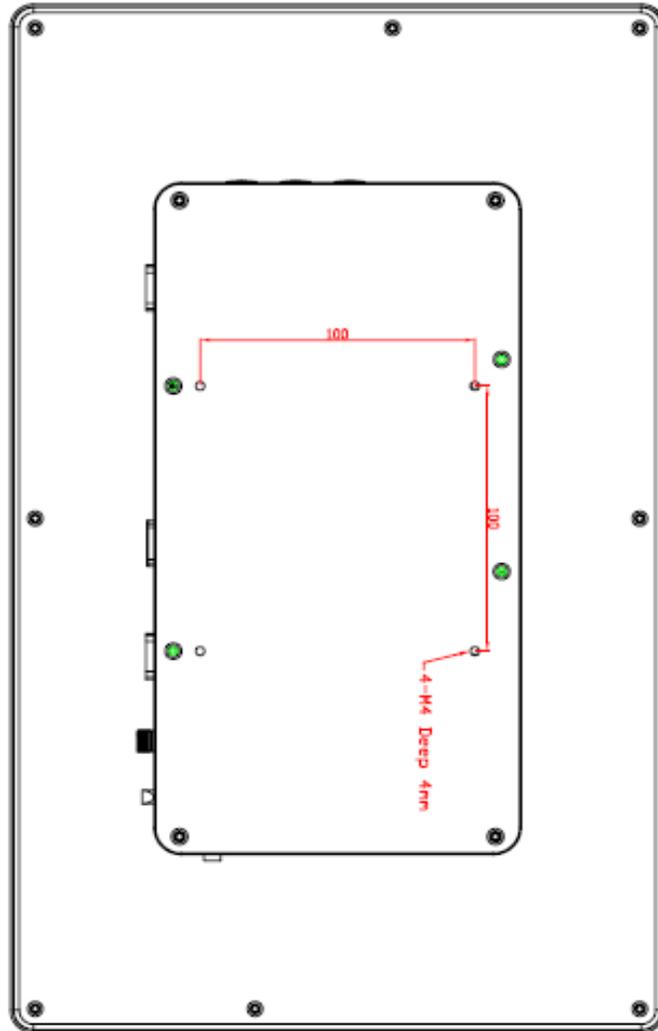*NOTE   All specifications and images are subject to change without*

NOTE   If the operation temperature is higher than 40℃, the wide temperature DRAM is recommended to be used on the device.

1.3   Dimensions

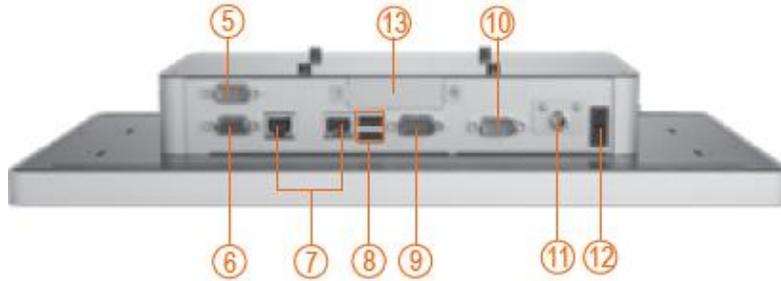The following diagrams show the dimensions and outlines of GOT615-801.

388

253.5

238

12   14

45

133.5

100

100

4-M4 Deep 4mm

1.4   I/O Outlets

Please refer to the following illustration for I/O locations of the GOT615-801.

1. Brightness adjust
2. Backlight switch
3. USB 2.0 x 2
4. Audio (Line-out)
5. COM 3 (RS-232)

6. VGA
7. Ethernet x 2
8. USB 2.0 x 2
9. COM 1 (RS-232/422/485)
10. COM 2 (RS-232)

11. Power connector (Screw type)
12. Power switch (ATX)
13. CF card slot

1.5   Packing List

When you receive the GOT615-801, the bundled package should contain the following items:

- GOT615-801 unit x 1
- Driver CD x1
- Adapter x 1
- Screws M2x3L x 1
- Screws M6B x 2
- Screws M3x4L x 8
- CF Mylar x 1
- HDD_Bracket x 1
- WALL mount bracket

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

CHAPTER 2
HARDWARE INSTALLATION

The GOT615-801 provides rich I/O ports and flexible expansions for you to meet different demand, for example, CF card. The chapter will show you how to install the hardware. It includes:

- CompactFlash ™ Card
- Serial Port
- Ethernet
- Mounting Method
- Hard disk
- DRAM
- Wireless LAN Card (option)

2.1   Open back cover

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

Step 1   Unscrew 8 screws on the back cover. Please refer the photo below.
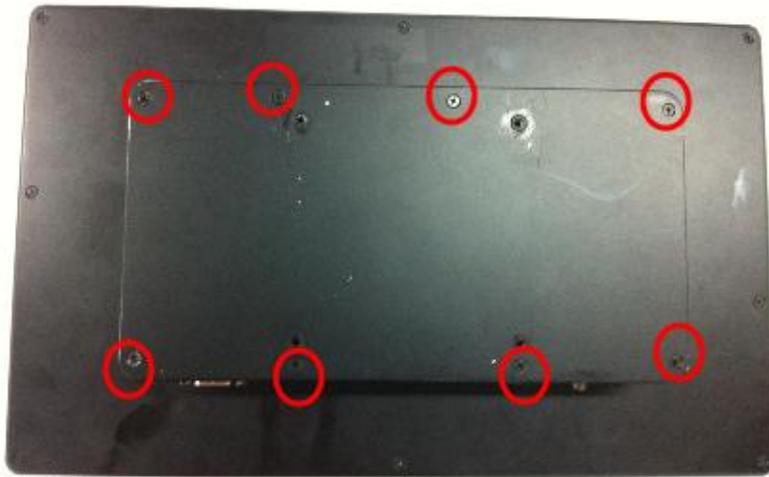
Step 2 Remove the back cover.

2.2 CF card Installation

The GOT615-801 provides one CF slot for users to install CompactFlash™ card. Please refer to the following instructions for installation:

Step 1 Refer to section 2.1 to open the back cover and find out DIMM Socket on mainboard (CAPA801) from system.

Step 2   Insert the card into the socket, Installation completes.

2.3　DRAM Installation

The GOT615-801 provides one 204-pin DDR3 667/800MHz SODIMM socket that support system memory up to 4GB. 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 (CAPA801) from system.

Step 2   Pulg DDR3 667/800MHz SODIMM 204-pin memory into slot
with angle of 45˚

Step 3   Press the memory into slot.

2.4 HDD Installation

The GOT615-801 provides a convenient Hard Disk Drive (HDD) bracket for users to install 2.5" SATA HDD. Please follow the steps:

Step 1   Refer to section 2.1 to open the back cover.
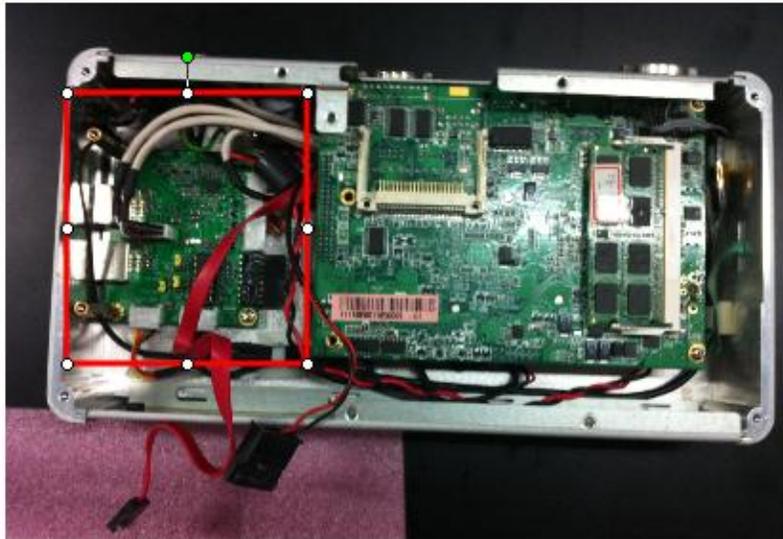
Step 2 Take the HDD bracket from the accessories and fix the HDD bracket.

Step 3 Fix the HDD on bracket by 4 screws at the side corner.

Step 4   Fix the HDD bracket into the system, and plug the data and power cables to HDD. Installation completed.
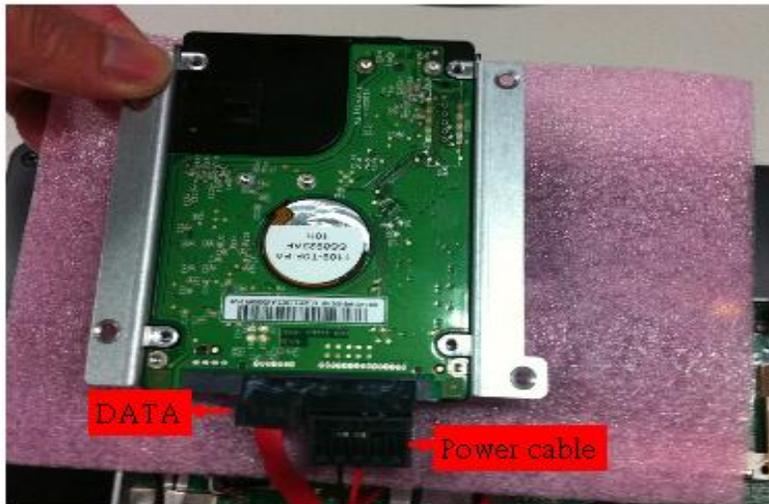
2.5 Wireless LAN Card Installation (option)

The GOT615-801 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 the back side of mainboard.

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

Setp 3 Fix the card on the M/B by a screw (M2x3L) at the side corner.

Step 4 Connecting the Antenna cable with wireless LAN card
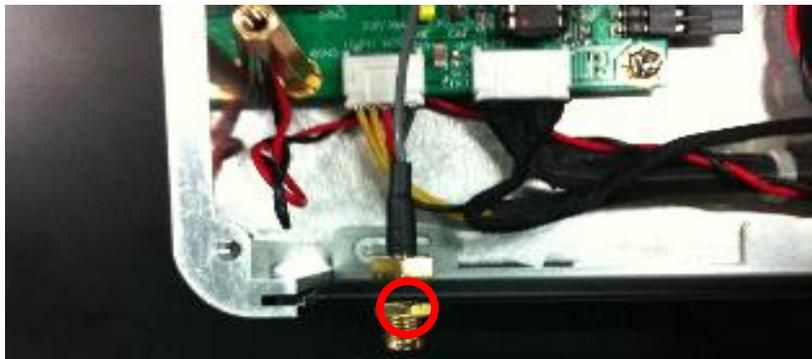
Step 5   Install the antenna on the antenna connector.
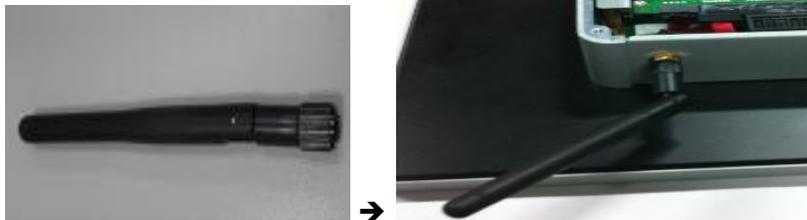
2.6 Serial Ports Interface

The GOT615-801 has threer serial ports. COM1 is RS-232/422/485, while COM2 and COM3 are RS-232.

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

Pin	Signal	Pin	Signal
1	Data Carrier Detect (DCD)	6	Data Set Ready (DSR)
2	Receive Data (RXD)	7	Request To Send (RTS)
3	Transmit Data (TXD)	8	Clear To Send (CTS)
4	Data Terminal Ready (DTR)	9	Ring Indicator (RI)
5	Ground (GND)		
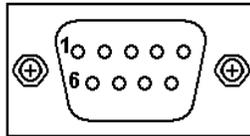
The COM2 ports have +5V level power capability on DCD and +12V level power capability for RI, depending on the JP8 setting.

Description	Mode	Jumper Setting
COM2	Power; Pin 1 +5V level	
	Data; Pin 1 DCD (Default)	
	Powe;r Pin 9 +12V level	
	Data; Pin 9 RI (Default)	
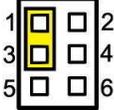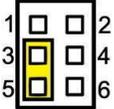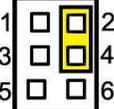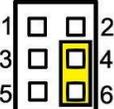
The COM3 ports have +5V level power capability on DCD and +12V level power capability for RI, depending on the JP7 setting.

Description	Mode	Jumper Setting
COM3	Power; Pin 1 +5V level	
	Data; Pin 1 DCD (Default)	
	Powe;r Pin 9 +12V level	
	Data; Pin 9 RI (Default)	
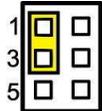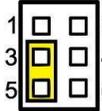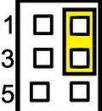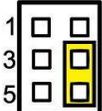
COM1 can be set for RS-232/422/485 by jumper. The jump setting is listed as below:

COM1 RS-232/422/485 Mode Select Jumpers (JP4, JP5, JP6)

Description	Mode	Jumper Setting		
COM 1	RS-232 (Default)	JP4	JP5	JP6
	RS-422	JP4	JP5	JP6
	RS-485	JP4	JP5	JP6
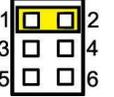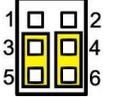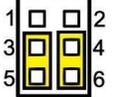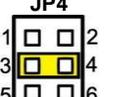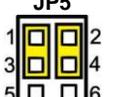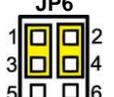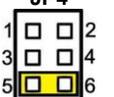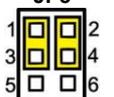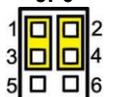
When COM1 is set to RS-232,RS-422 or RS-485, the pin assignments are listed below:

PIN #	Signal Name		
	RS-232	**RS-422**	**RS-485**
1	DCD / +5V	TX-	TX-/RX-
2	RX	TX+	TX+/RX+
3	TX	RX+	NC
4	DTR	RX-	NC
5	GND	GND	GND
6	DSR	NC	NC
7	RTS	NC	NC
8	CTS	NC	NC
9	RI / +12V	NC	NC

The COM1 ports have +5V level power capability on DCD and +12V level power capability for RI, depending on the JP10 setting.

When COM1 is set +5V level or +12V level, please make sure the Mode is RS-232

Description	Mode	Jumper Setting
COM1	Power; COM1 Pin 1: +5V level	
	Data; COM1 Pin 1: DCD (Default)	
	Power; COM1 Pin 9: +12V level	
	Data; COM1 Pin 9: RI (Default)	
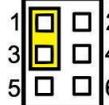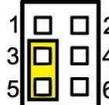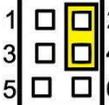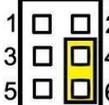
2.7   Ethernet Connector (LAN1, LAN2)

The GOT615-801 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.

The RJ-45 connector is for Ethernet. To connect the board to a 1000/100/10 Base-T hub, just plug one end of the cable into connector and connect the other end (phone jack) to a 1000/100/10-Base-T hub.

Pin	Signal	Pin	Signal	
L1	MDI0+	L5	MDI2-	
L2	MDI0-	L6	MDI1-	
L3	MDI1+	L7	MDI3+	
L4	MDI2+	L8	MDI3-	
A	Active LED (Yellow)			
B	100 LAN LED (Green)/ 1000 LAN LED (Orange)			
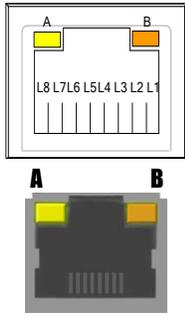
Hardware Installation
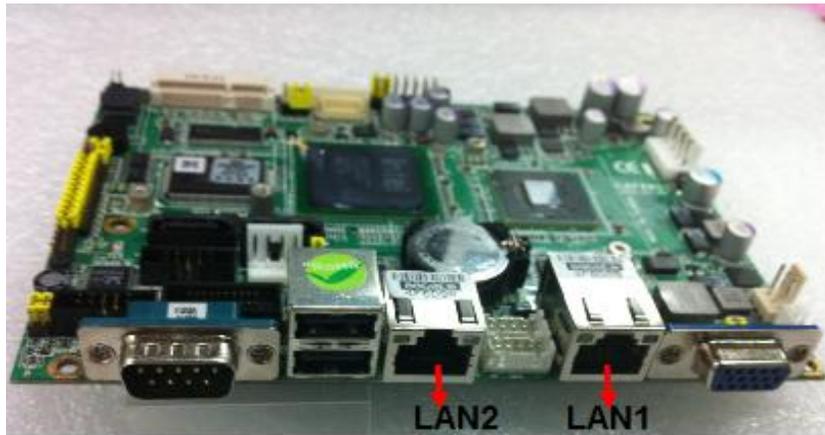
2.8   Mountings: VESA / WALL

There are 2 application options for the GOT615-801, Panel/VESA mountings.

2.8.1 VESA-ARM

The GOT615-801 provides 100x100 VESA mount. Screw four screws to fix the kit (optional) in the back chassis.
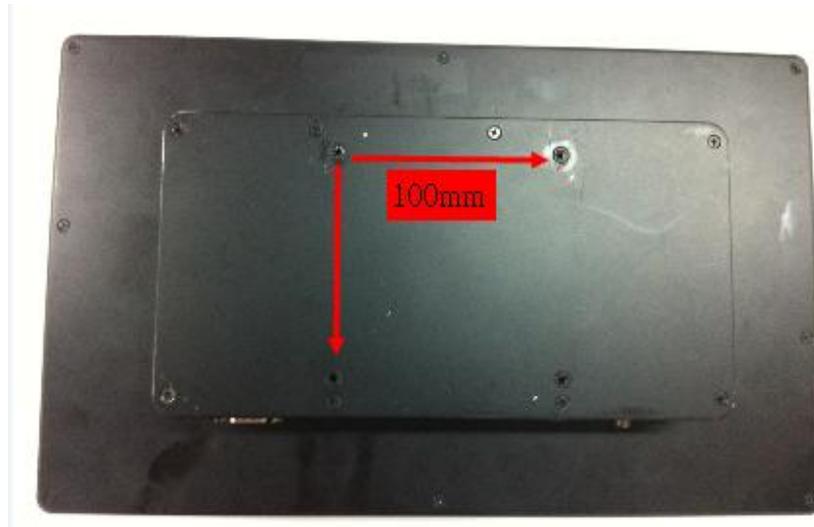
2.8.2 WALL mounting

The GOT615-801 is designed for Wall mounting application.
Please refer to the following:
Find out the screws as marked on the back side of chassis.

2.9   Power

GOT615-801 equips with a screw type power connector. It adopts 12VDC. Please follow the signs on power connector to connect DC power source.

Note: The safty ground must be connected to ensure the uiit working appropriately.

CHAPTER 3
AMI BIOS SETUP UTILITY

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

3.1 Starting

To enter the setup screens, follow the steps below:
1.   Turn on the computer and press the <Del> key immediately.
2.   After pressing the <Delete> key, the main BIOS setup menu displays. You can access to other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

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

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

← Left/Right	The Left and Right <Arrow> keys allow you to select a setup screen.
↑↓ 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.
F10	The <F10> key allows you to save any changes you have made and exit Setup. Press the <F10> 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.

3.3 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.
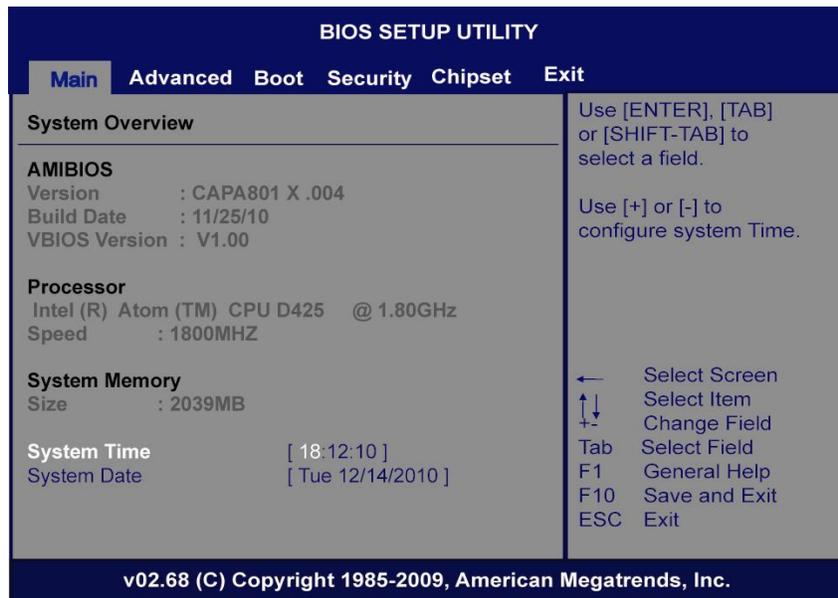
> ➢ System Time/Date
>
>   Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time is entered in HH:MM:SS format.

3.4   Advanced Menu

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

- CPU Configuration
- IDE Configuration
- Super IO Configuration
- Hardware Health Configuration
- ACPI Configuration
- AHCI Configuration
- APM Configuration
- USB Configuration

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

BIOS SETUP UTILITY

| Main | **Advanced** | Boot | Security | Chipset | Exit |

Advanced Settings   Configure CPU.

Warning: Setting wrong values in below sections
             may cause system to malfunction.

▶ CPU Configuration
▶ IDE Configuration
▶ Super IO Configuration
▶ Hardware Health Configuration
▶ ACPI Configuration
▶ AHCI Configuration
▶ APM Configuration
▶ USB Configuration
CMOS Backup Function   [off]

← →   Select Screen
↑ ↓   Select Item
Enter   Go to Sub Screen
F1   General Help
F10   Save and Exit
ESC   Exit

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● **Configure advanced CPU settings**

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

```
                        BIOS SETUP UTILITY
    Advanced

Configure advanced CPU settings            When disabled , force
Module Version: 3F.1B                      the XD feature flag to
                                           always return 0 .
Manufacturer: Intel
Intel (R)  Atom (TM)  CPU  D425  @ 1.80GHz
Frequency    :1.80GHz
FSB Speed   :800MHz
Cache L1     :24 KB
Cache L2     :512  KB
Ratio Actual Value : 9

Execute-Disable Bit Capability    [Enabled]
Hyper Threading Technology        [Enabled]

                                           ←      Select Screen
                                           ↑ ↓    Select Item
                                           +-      Change Option
                                           F1     General Help
                                           F10   Save and Exit
                                           ESC   Exit

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```

> **Execute-Disable Bit Capability**
> Use this item to enable or disable the No-Execution Page Protection Technology.

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

● **IDE Configuration**

Use this screen to select options for the IDE Configuration and change the value of the selected option. Available options of the selected item appear on the right side of the screen.

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

```
                        BIOS SETUP UTILITY
     ┌──────────┐
     │ Advanced │
     └──────────┘
 IDE Configuration                            ┌─────────────────────┐
                                              │       Options       │
 ATA/IDE   Configuration      [Enhanced]      └─────────────────────┘
      Configure SATA  as      [IDE]            Disabled
                                               Compatible
 ▶ Primary IDE Master       : [Not Detected]   Enhanced
 ▶ Primary IDE Slave        : [Not Detected]
 ▶ Secondary IDE Master     : [Not Detected]
 ▶ Secondary IDE Slave      : [Not Detected]
 ▶ Third IDE Master         : [Not Detected]



                                               ←       Select Screen
                                               ↑ ↓     Select  Item
                                               +-      Change Option
                                               F1      General Help
                                               F10     Save and Exit
                                               ESC     Exit

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```

➢ **ATA/IDE Configuration**
Use this item to specify the integrated IDE controller. There are three options for your selection: Disabled, Compatible and Enhanced.

➢ **Primary/Secondary/Third IDE Master**
Use this item to select one of the hard disk drives to configure IDE devices installed in the system by pressing <Enter> for more options.

● **Super IO Configuration**

Use this item for the Super IO Configuration, and change the value of the selected option.
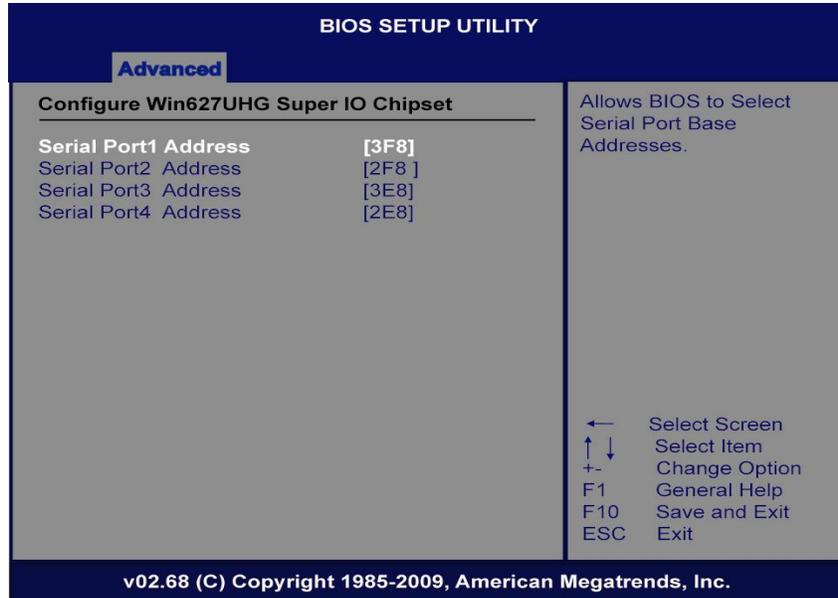
> ➤ **Serial Port1 Address**
>   This item specifies the base I/O port address and Interrupt Request address of serial port 1. The Optimal setting is 3F8/IRQ4. The Fail-Safe default setting is Disabled.
>
> ➤ **Serial Port2 Address**
>   This item specifies the base I/O port address and Interrupt Request address of serial port 2.
>
> ➤ **Serial Port3 Address**
>   This item specifies the base I/O port address and Interrupt Request address of serial port 3.

● **Hardware Health Configuration**

This item shows the Hardware Health Configuration, which displays the temperature of System, CPUFAN Speed and Vcore, +12V, +5V, +3.3V.
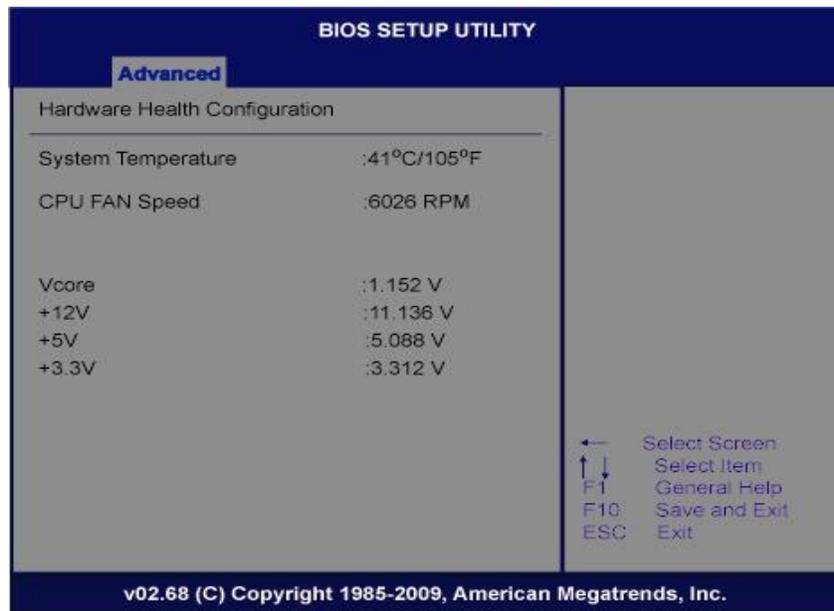
● **ACPI Settings**

Use this item to select options for the ACPI Settings, and change the value of the selected option.
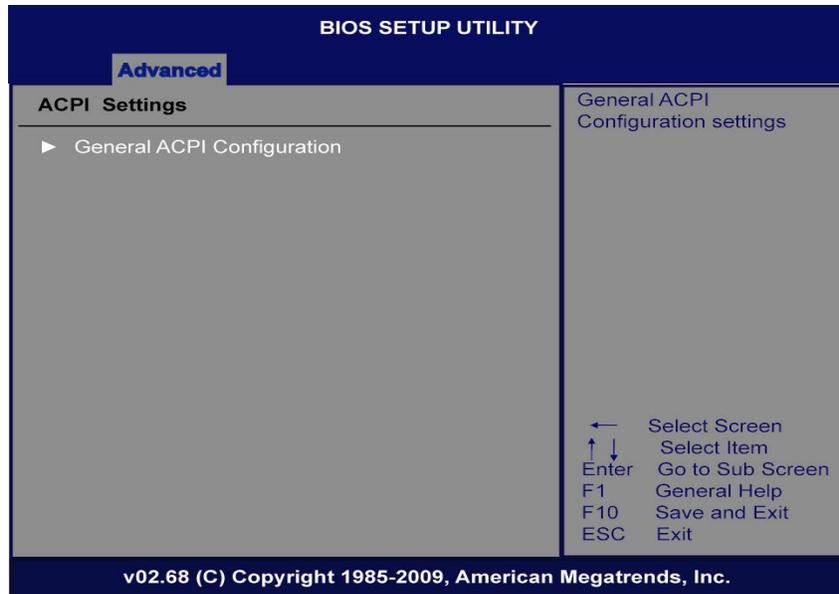
➢ **General ACPI Configuration**

Scroll this item and press <Enter> to view the General ACPI Configuration sub menu, which contains General ACPI (Advanced Configuration and Power Management Interface) options for your configuration.

● **General ACPI Configuration/Suspend mode**

Use this item to select which in the Advanced Configuration and Power Interface(ACPI) state to be used for system suspend. Here are the options for your selection, S1(POS), S3(STR) and Auto.
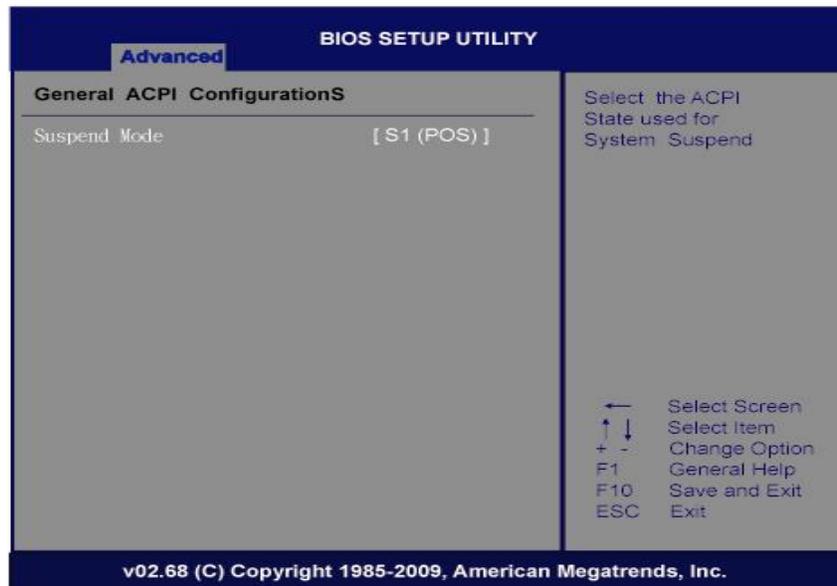
● **AHCI Configuration**

Use this item to select options for the AHCI Configuration and change the value of the selected option.
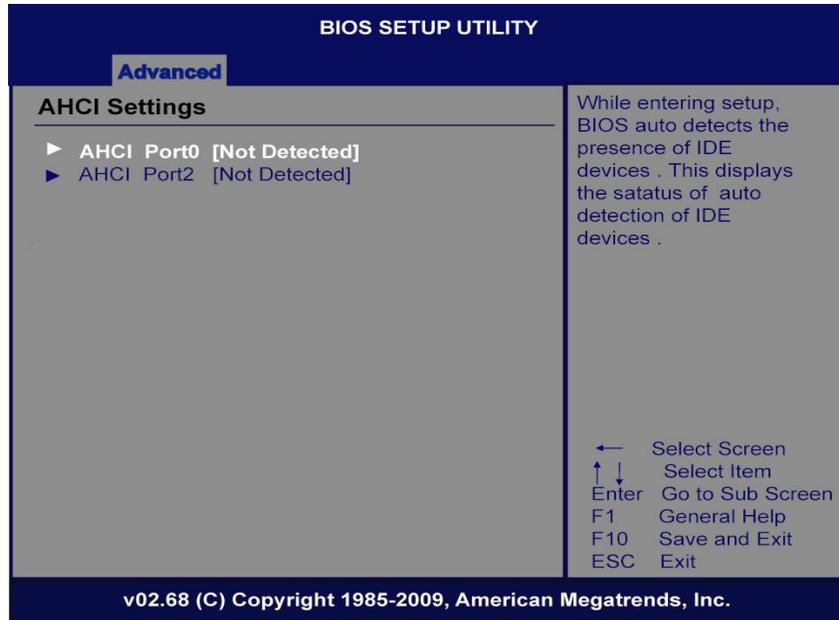
● **APM Configuration**

Use this item to select options for the APM Configuration, and change the value of the selected option. Available options of the selected item appear on the right side of the screen.
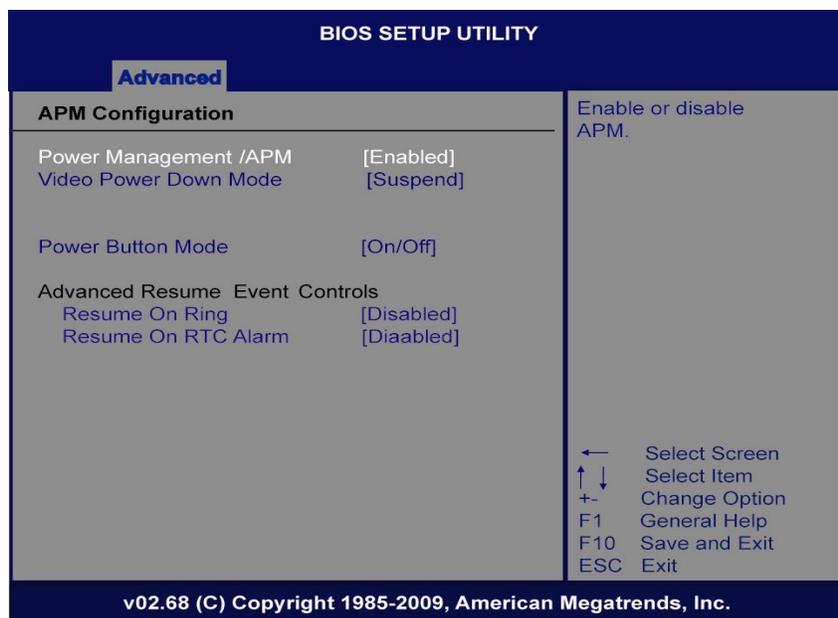
➢ **Power Management/APM**
Set this item to allow Power Management/APM support. The default setting is Enabled.

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

> **Video Power Down Mode**
> This option specifies the Power State. When the BIOS places it in a power saving state, the video subsystem enters when the BIOS places it in a power saving state after the specified period of display inactivity has expired. The default setting is Suspend.

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

> **Power Button Mode**
> This option specifies how the externally mounted power button on the front of the computer chassis is used. The default setting is On/Off.

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

*** **Advanced Resume Event Controls** ***

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

> **Resume On RTC Alarm**
> This item can be set to enabled and key in Data/time to power on system.

● **USB Configuration**

You can use this item to select options for the USB Configuration, and change the value of the selected option.
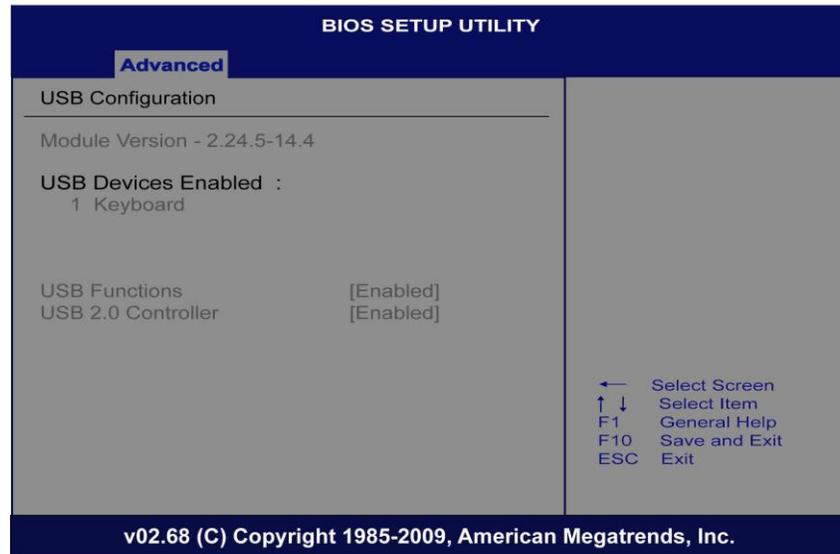
➢ **USB Function**
 Use this item to enable or disable USB function.

➢ **USB 2.0 Controller**
  Use this item to enable or disable the USB 2.0 controller.

3.5   Boot Menu

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

● Boot Settings Configuration
● Lan Boot Option

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

```
                        BIOS SETUP UTILITY

   Main  Advanced   Boot   Security  Chipset   Exit

   Boot  Settings                          Configure Setting
                                           during  system Boot.
  ► Boot Settings Configuration

  ► Lan Boot Option


                                           ←      Select Screen
                                           ↑ ↓     Select Item
                                           Enter  Go to Sub Screen
                                           F1     General Help
                                           F10    Save and Exit
                                           ESC    Exit

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```
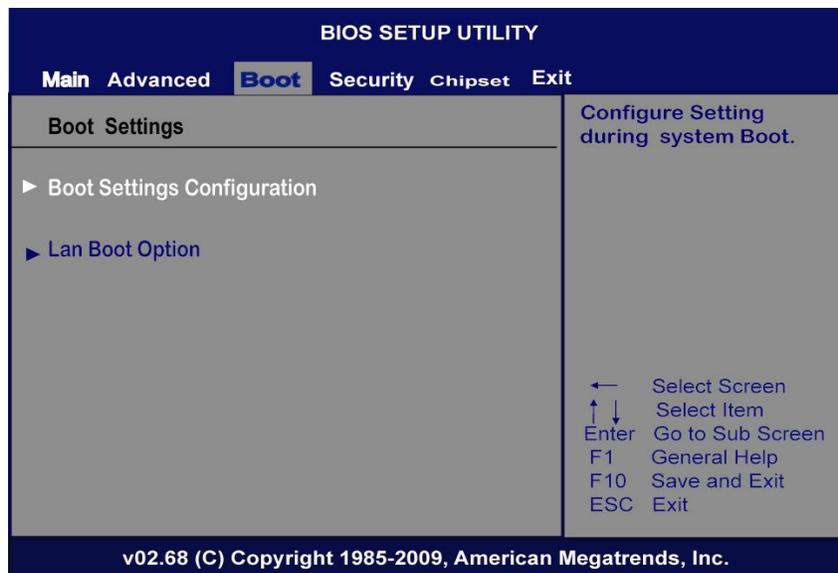
● **Boot Settings Configuration**
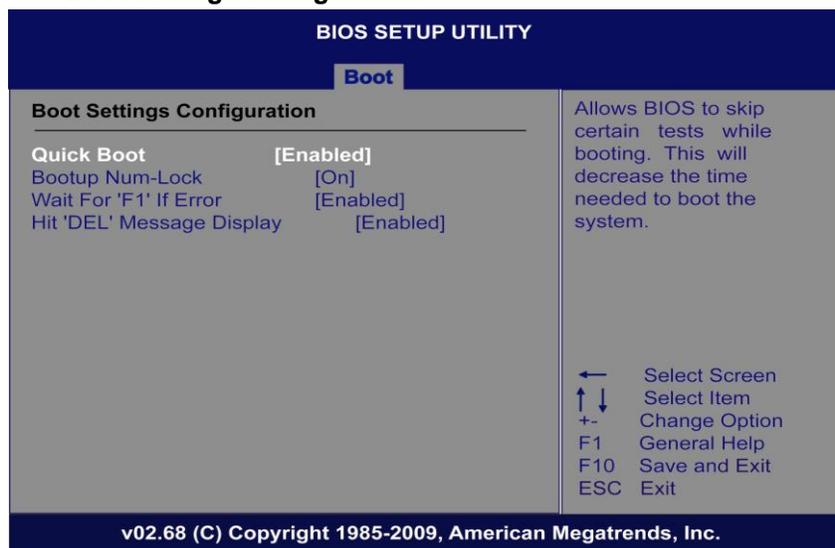
➢ **Quick Boot**

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

➢ **Bootup Num-Lock**

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

➢ **Wait For 'F1' If Error**

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

➢ **Hit 'DEL' Message Display**

If this item is enabled, the system displays the message "Press DEL to run Setup" during POST. The default setting is Enabled.

● **LAN Boot Option**

Use these items to enable or disable the Boot ROM function of the onboard LAN chip when the system boots up. Available options of the selected item appear on the right side of the screen.
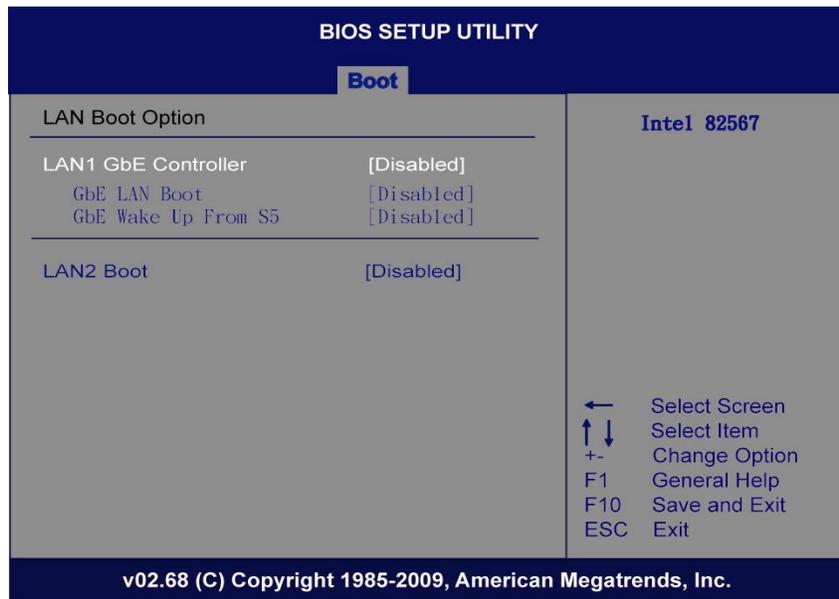
```
                    BIOS SETUP UTILITY
                         Boot

  LAN Boot Option                          Intel 82567

  LAN1 GbE Controller        [Disabled]
    GbE LAN Boot             [Disabled]
    GbE Wake Up From S5      [Disabled]

  LAN2 Boot                  [Disabled]


                                       ←     Select Screen
                                       ↑↓    Select Item
                                       +-    Change Option
                                       F1    General Help
                                       F10   Save and Exit
                                       ESC   Exit

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```
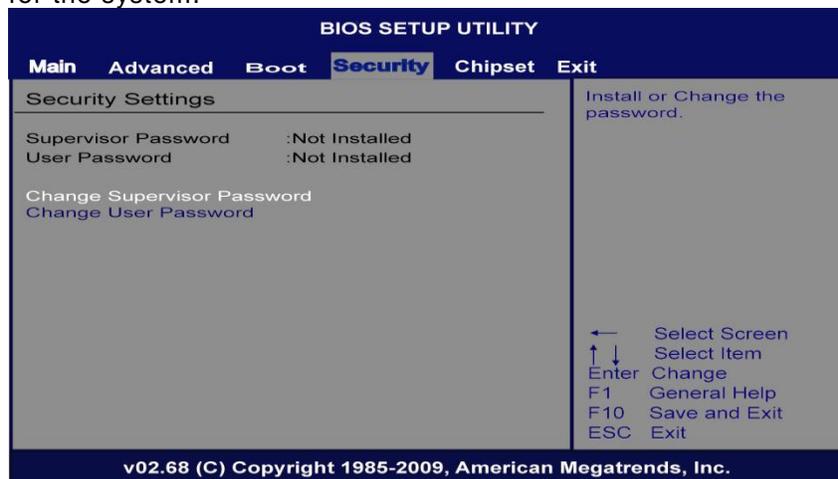
➢ **LAN1 GbE Controller**

➢ **This item allows you to enabled or disabled Intel® LAN Contrller.**

➢ **LAN2 Boot**

Use these items to enable or disable the Boot ROM function of the onboard LAN chip when the system boots up.

3.6   Security Menu

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

> ➢ **Supervisor Password**

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

> ➢ **User Password**

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

> ➢ **Change Supervisor Password**

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

> ➢ **Change User Password**

   Select this option and press <Enter> to access the sub menu. You can use the sub menu to change the user password.
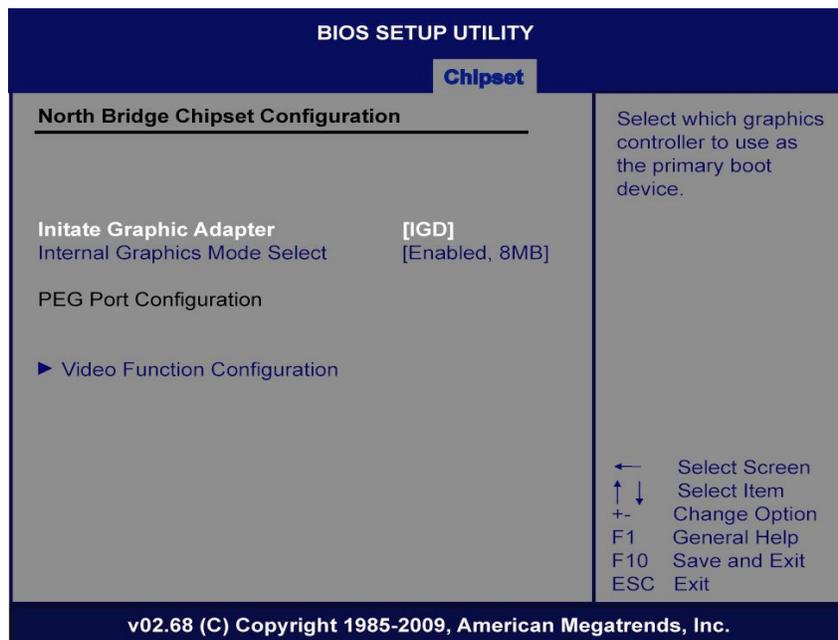
3.7 Chipset Menu

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

- North Bridge Configuration
- South Bridge Configuration

For items marked with "►", please press <Enter> for more options.
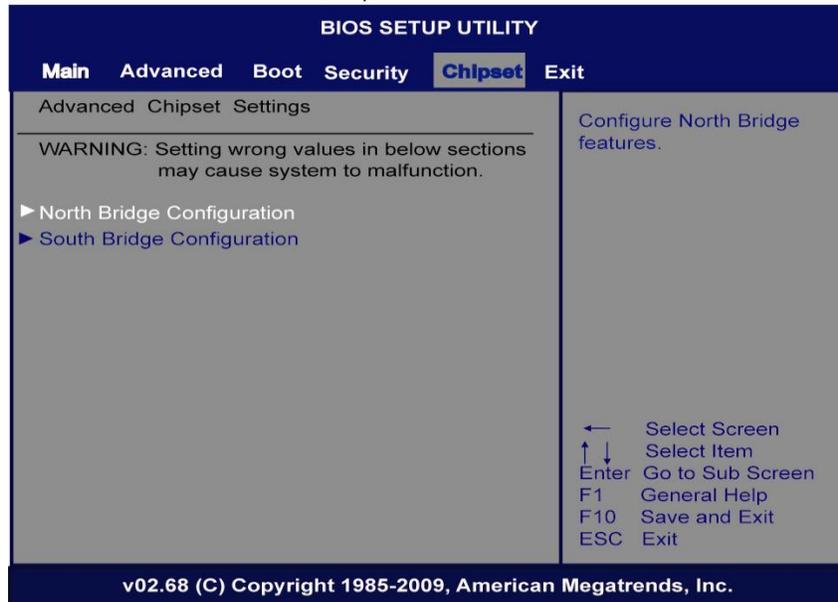
● **North Bridge Configuration**

> ➢ **Initate Graphic Adapter**
> When using multiple graphics cards, this item can select which graphics controller to be the primary display device during boot.
>
> ➢ **Internal Graphics Mode Select**
> This item allows you to select the amount of system memory used by the internal graphics device.
>
> ➢ **Video Function Configuration**
> Press <Enter> for the sub-menu for setting up video function.

● **Video Function Configuration**
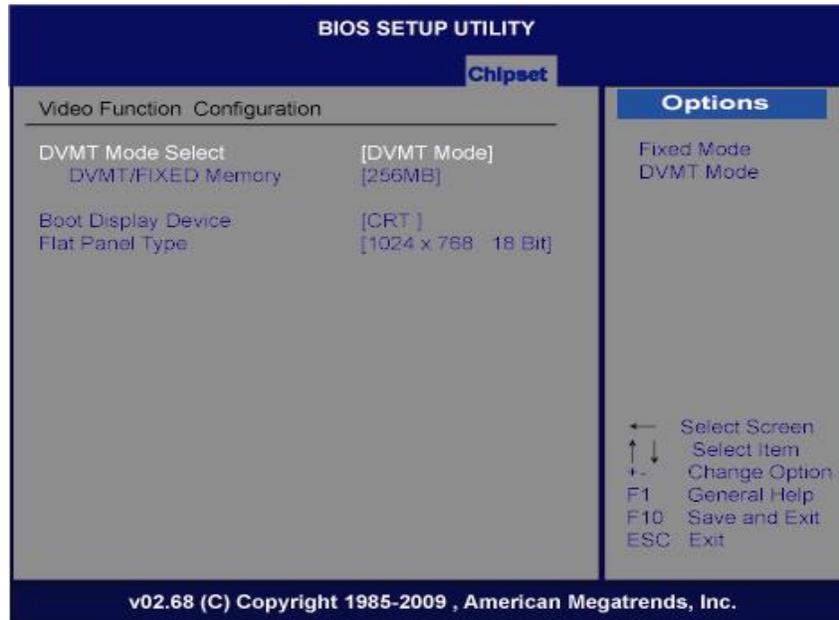
> ➢ **DVMT Mode Select**
> Allow you to select DVMT (Dianomic Video Memory Technology) mode and Fixed Mode.

> ➢ **DVMT/FIXED Memory**
> Allow you to allocate a fixed amount of system memory as graphics memory. Here are the options for your selection, 128MB, 256MB and Maximum DVMT

> ➢ **Boot Display : CRT+LVDS (Only)**

➢ **Flat Panel Type : 1366x768(only) 18 bit**

● **South Bridge Configuration**

➢ **HDA Controller**
This item allows you to enable or disabled the HD audio support.

3.8 Exit Menu

The Exit menu allows users to load the system configuration with optimal or failsafe default values.

```
                    BIOS SETUP UTILITY

 Main    Advanced   Boot    Security    Chipset    Exit

 Exit Options                                    Exit system setup
                                                 after saving the
 Save Changes and Exit                           changes.
 Discard Changes and Exit
 Discard Changes                                 F10 key can be used
                                                 for this operation.
 Load Optimal Defaults
 Load Failsafe Defaults




                                                 ←     Select Screen
                                                 ↑ ↓   Select Item
                                                 Enter Go to Sub Screen
                                                 F1    General Help
                                                 F10   Save and Exit
                                                 ESC   Exit

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```
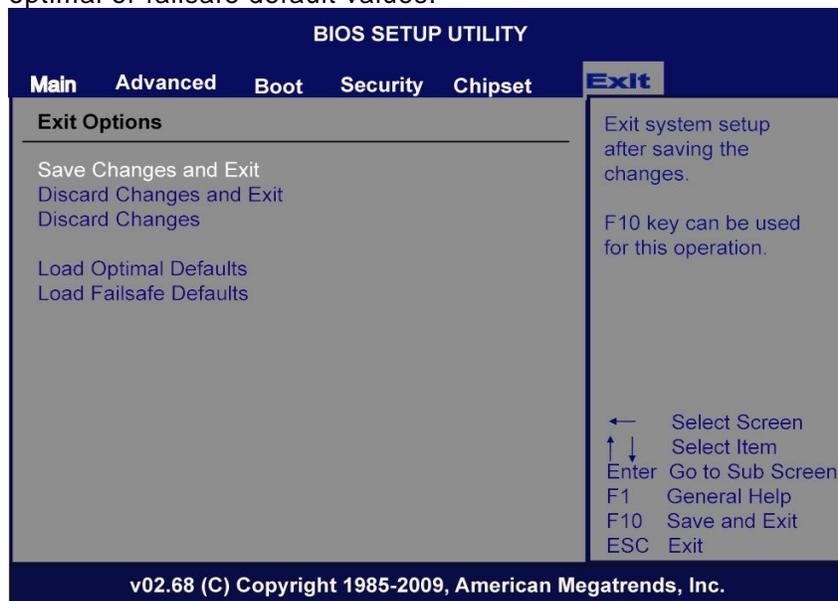
> **Save Changes and Exit**

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

> **Discard Changes and Exit**

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

> **Discard Changes**
> Use this item to abandon all changes.

> **Load Optimal Defaults**

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

Select Load Optimal Defaults from the Exit menu and press <Enter>.

> **Load Fail-Safe Defaults**

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

> **Select Load Fail-Safe Defaults**

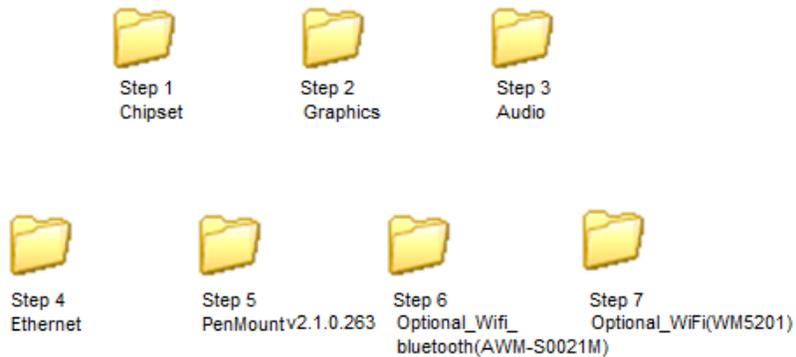from the Exit menu and press <Enter>. Select Ok to load Fail-Safe defaults.

MEMO:

CHAPTER 4
DRIVERS INSTALLATION

4.1 System

GOT615-801 supports Windows XP and WIN 7. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

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

Step 1
Chipset

Step 2
Graphics

Step 3
Audio

Step 4
Ethernet

Step 5
PenMount v2.1.0.263

Step 6
Optional_Wifi_
bluetooth(AWM-S0021M)

Step 7
Optional_WiFi(WM5201)

2.   Select all files and follow the installing procedure.

4.2   Touch Screen

The GOT615-801 uses the 5-wire analog resistve. There are the specification and driver installation which are listed below.

4.2.1   Specification

| Touch Screen	5-wire Analog Resistive type
Touch Screen Controller	PenMount 6000 USB Touch Screen Controller IC
Communications	USB interface
Resolution	1024 x 0124 (10 bit A/D converter inside)
Power Input	5V
Power Consumption	Active: 24.6mA / Idle Mode: 13.4mA

4.2.2 Driver Installation- Windows XP/WIN 7

The GOT615-801 provides a touch screen driver that users can install it under the operating system Windows XP/Win 7. 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 5 – Penmountv2.1.0.263".

2.   Follow the installing procedure and press OK.
    Click Start menu and select "PenMount Utilities"; and then, a
    "PenMount Control Panel" pops out.
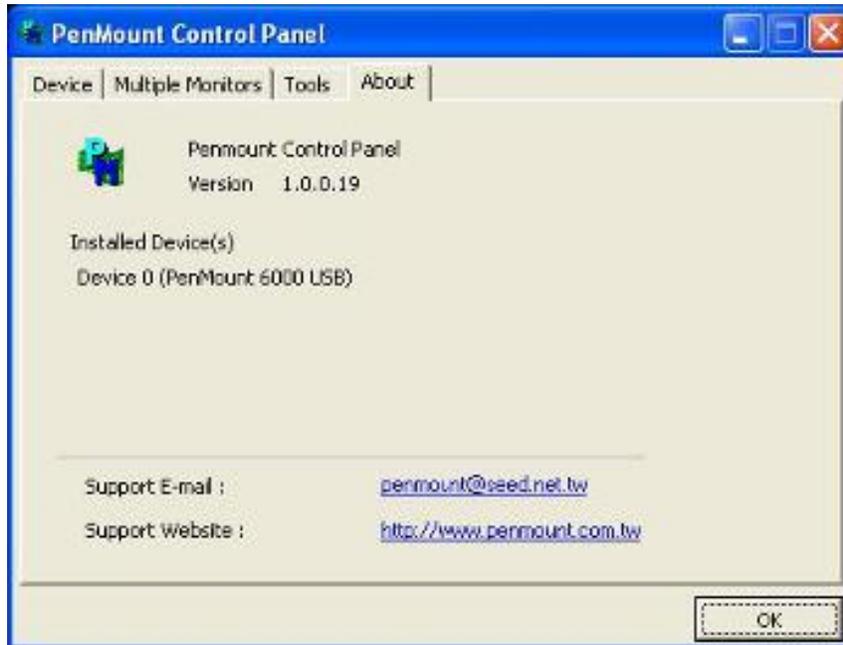
Select the "Standard Calibrate" tab.

3. Calibration:

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

    Touch the red square.

4. Press OK.

4.3   Embedded O .S

The GOT615-801 provides the Windows XP Embedded. The O.S. is supported devices which are listed below.

4.3.1   Windows XP Embedded

Here are supported onboard devices:

- Onboard Multi I/O
- SATA HDD
- USB
- CRT/LCD display
- 10/100/1000 base-T Ethernet
- Compact Flash
- Audio (line-out)
- 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.

4.4   Wake On LAN setting

The GOT615-801 supports the wake on LAN function.

Please make the following setting when using this function under WIN XP and XPE.