

GOT-5100T-830

All-in-One 10.4" SVGA TFT Fanless Touch Panel Computer with Intel[®] Atom[™] N270 Processor Onboard

User's Manual



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Safety Approvals

- CE Marking
- FCC Class A

FCC Compliance

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

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

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

Safety Precautions

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

- 1. The **GOT-5100T-830** 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 staticshielded devices. Most electronic components are sensitive to static electrical charge.
- 3. Disconnect the power cord from the **GOT-5100T-830** 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 **GOT-5100T-830** 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 **GOT-5100T-830** 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 **GOT-5100T-830**, make sure it is securely installed.
- 8. Do not open the system's back cover. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:

- Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
- When handling boards and components, wear a wristgrounding strap, available from most electronic component stores.

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CHAPTER 1 INTRODUCTION

This chapter contains general information and detailed specifications of the **GOT-5100T-830**. Chapter 1 includes the following sections:

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

1.1 General Description

The GOT-5100T-830 is a fan-less and compact-size touch panel computer, equipped with a 10.4" TFT LCD display and low power consumption Intel[®] Atom[™] N270 1.6GHz processor with FSB 533MHz. The GOT-5100T-830 supports Windows[®] XP, Windows[®] CE.NET and Windows[®] XP embedded. The panel computer is able to install a CompactFlash[™] card and provide a Mini card slot for wireless module. Its excellent ID and friendly user interface make it a professional yet easy-to-use panel computer. The GOT-5100T-830 is an ideal for space-limited applications in factory automation, machine maker operating systems, building automation, and more.

 GOT-5100T-830: 10.4" TFT SVGA Fanless Touch Panel Computer

> Reliable and Stable Design

The GOT-5100T-830 adopts a fanless cooling system and a

CompactFlashTM card, which makes it suitable for vibration environments.

> Embedded O.S. Supported

The GOT-5100T-830 not only supports Windows[®] XP, but also supports embedded OS, such as Windows[®] CE.NET, and Windows[®] XP embedded. For storage device, the GOT-5100T-830 supports CompactFlash[™] card and 2.5" SATA device (optional).

> Industrial-grade Product Design

The GOT-5100T-830 has an incredible design to be used in different industrial environments.

- The front bezel meets the IP65/NEMA4 standard.
- For connecting other devices, the GOT-5100T-830 also features several interfaces: USB, Ethernet, and RS-232/422/485.

1.2 Specifications

1.2.1 Main CPU Board

- CPU
 - Intel[®] Atom[™] N270 1.6GHz processor with FSB 533MHz onboard
- System Chipset
 - 945GSE + ICH7M
- BIOS
 - America Megatrends BIOS
- System Memory
 - One 200-pin DDR2 SO-DIMM socket
 - Maximum memory up to 2GB

Introduction

1.2.2 I/O System

- Standard I/O
 - One RS-232 and one RS-232/422/485
 - Four USB 2.0
- Ethernet
 - One RTL81111b Gigabit Ethernet
- Audio
 - One Line-out
- Expansion
 - One Mini card
- Storage
 - One slot for CF card
 - One SATA
- Power connector
 - GOT-5100T-830: 10VDC to 30VDC with phoenix power connector
 - GOT-5100T-830-J: External 60W AC Adapter with screw type connector

1.2.3 System Specification

- 10.4" TFT LCD
- Heat Dispensing Design
- Disk drive housing:
 - One 2.5" SATA drive
- Net Weight
 - 1.8 Kgs (3.96 lb)
- Dimension (Main Body Size)
 - 293x 44.6 x 236mm
- Operation Temperature
 - 0°C to 45°C

- **Relative Humidity** •
 - 10% to 90% @ 40°C, Non-Condensing
- Vibration •
 - 5 to 500 Hz, 2.0 G random for CF card
- **Power input**
 - 10~30VDC with phoenix power connector
 - External 60W AC Adapter
 - Power Input: 90VAC to 264VAC
 - Power Output: 12VDC, Max. 5A

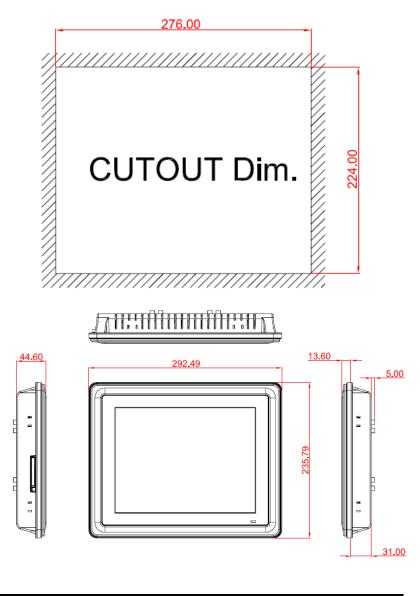


<u>NOTE</u> All specifications and images are subject to change without notice.

NOTE If the operation temperature is higher than 35° C, the wide temperature DRAM and HDD are recommended to be used on the device.

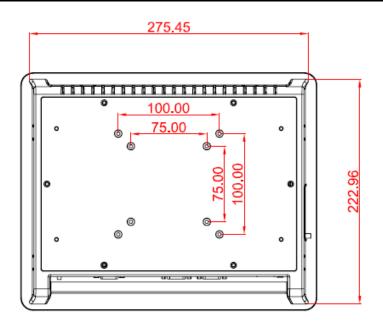
1.3 Dimensions

This diagram shows you dimensions and outlines of the **GOT-5100T-830**.



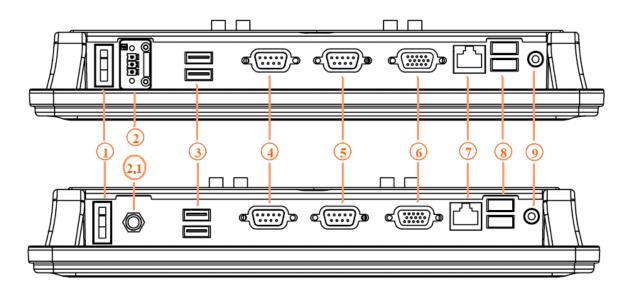
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1.4 I/O Outlets

Please refer to the following illustration for I/O locations of the $\ensuremath{\textbf{GOT-5100T-830}}$.



No	Function	
1	POWER SWITCH (ATX)	
2	Power Input connector (phoenix type)	
2.1	Power Input connector (screw type)	
3	2 X USB 2.0	
4	COM 1 (RS-232/422/485)	
5	COM 2 (RS-232)	
6	VGA	
7	1X ETHERNET (RJ-45)	
8	2 X USB 2.0	
9	AUDIO (LINE-OUT)	

Introduction

1.5 Packing List

When you receive the **GOT-5100T-830**, the bundled package should contain the following items:

- GOT-5100T-830 x 1
- Panel Mount Kit x 6
- Driver CD x1
- Wall-Mount Kit x1
- HDD Mylar x 1
- Desktop Stand Kit (optional)
- VESA ARM(optional)
- Power Adapter & power cord (for GOT-5100T-830-J)

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

CHAPTER 2 HARDWARE INSTALLATION

The **GOT-5100T-830** 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:

- CompactFlashTM Card
- Serial Port
- Ethernet
- Mounting Way
- Hard disk
- Dram
- Wireless LAN Card

2.1 CF card Installation

The **GOT-5100T-830** provides one CF slot for users to install CompactFlashTM card. Please refer to the following instructions for installation:

Step 1 Turn off the system, and unplug the power cord.

Hardware Installation

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



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

Hardware Installation

2.2 Serial Ports Interface

The GOT-5100T-830 has two onboard serial ports, COM1 (RS-232/ 422/ 485) and COM2 (RS-232).

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

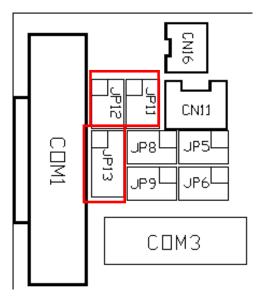
Pin	Signal	Pin	Signal
1	Data Carrier Detect (DCD)	6	Data Set Ready (DSR)
2	Receive Data (RXD)	7	Request To Send (RTS)
3 Transmit Data (TXD)		8	Clear To Send (CTS)
4 Data Terminal Ready (DTR)		9	Ring Indicator (RI)
5	5 Ground (GND)		
$\textcircled{\begin{tabular}{c} 10 & 0 & 0 & 0 \\ \hline 60 & 0 & 0 & 0 \\ \hline 60 & 0 & 0 & 0 \\ \hline \end{array}}$			

In addition, COM1 can be set for RS-232/422/485 by jumper. The jump setting is listed as below:

COM1	JP11	JP12	JP13
RS-232 (default)	3-5, 4-6	3-5, 4-6	1-2
RS-422	1-3, 2-4	1-3, 2-4	3-4, 7-8
RS-485	1-3, 2-4	1-3, 2-4	5-6, 7-8
			5 3 1 0 0 0 6 4 2

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When COM1 is set to RS-422 or RS-485, the pin assignments are listed below:

Pin #	Signal Name		
F III #	RS-422	RS-485	
1	TX-	DATA-	
2	TX+	DATA+	
3	RX+	No connector	
4	RX-	No connector	
5	No connector	No connector	
6	No connector	No connector	
7	No connector	No connector	
8	No connector	No connector	
9	GND	GND	

Hardware Installation

2.3 Ethernet

The **GOT-5100T-830** 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.

Pin Signal TX+ (Data transmission positive 1 2345678 TX- (Data transmission negative) 2 Rx+(Data reception positive) 3 4 RJ45 termination 5 **RJ45** termination 6 Rx- (Data reception negative) RJ-45 RJ45 termination 7 8 RJ45 termination

Please refer to detailed pin assignment list below:

Hardware Installation

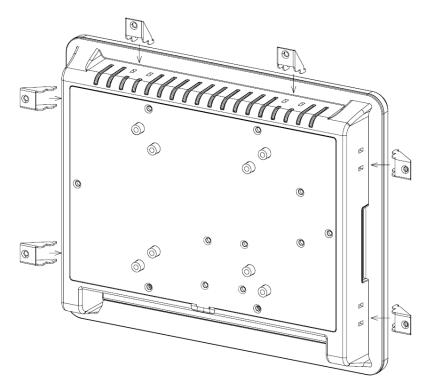


2.4 Mountings – Panel/Wall/Desktop/VESA

There are several mounting ways for the GOT-5100T-830, Panel, Wall, Desktop and VESA mountings.

2.4.1 Panel Mounting

The **GOT-5100T-830** is designed for panel mount application. A set of standard mounting kit are bundled with the system package that you can use it to mount the **GOT-5100T-830**.



Hardware Installation

2.4.2 Wall-Mounting

The GOT-5100T-830 is designed for Wall mounting application. Please refer to the following steps:

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



Hardware Installation

2.4.3 Desktop-Mounting

The GOT-5100T-830 is designed for desktop mounting application. Please refer to the following steps:

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



Hardware Installation



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

Hardware Installation

2.4.4 VESA-ARM Mounting

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



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



Hardware Installation





Step 3 VESA mounting Installation completed.

Hardware Installation

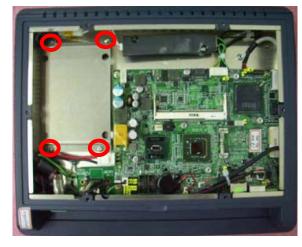
2.5 HDD Installation

The GOT-5100T-830 provides a convenient Hard Disk Drive (HDD) bracket for users to install 2.5" SATA HDD. Please follow the steps:

1. Unscrew six screws to remove the rear chassis.



2. Unscrew 4 screws from the HDD bracket, and take out HDD bracket.



Hardware Installation

3. Screw the 2.5" HDD, together with the HDD Mylar, to the HDD bracket.



4. Fix the HDD bracket into the system, and plug the data and power cable to HDD. Installation complete.



Hardware Installation



2.6 DRAM Installation

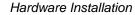
The GOT-5100T-830 provides one 200-pin DDR2 SODIMM socket that support system memory up to 2GB. Please follow steps below to install the memory modules:

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



2. Push down latches on each side of the DIMM socket.





3. Install the memory module into the socket and push it firmly down until it is fully seated. The socket latches are levered upwards and clipped on to the edges of the DIMM.



Hardware Installation

2.7 Wireless LAN Card Installation

The GOT-5100T-830 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:

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



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

Hardware Installation



3. Find the built-in Antenna cable which is tied with other cables on the top of the device. There are two connectors on wireless LAN card. One is MAIN, and the other is AUX. Connect antenna cable to **MAIN** connector on wireless LAN card



Hardware Installation

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



Hardware Installation

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Hardware Installation

CHAPTER 3 AMI BIOS SETUP UTILITY

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

3.1 Starting

To enter the setup screens, follow the steps below:

- 1. Turn on the computer and press the key immediately.
- 2. After you press the <Delete> key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

Navigation Keys 3.2

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.

These keys include <F1>, <F10>, <Enter>, <ESC>, <Arrow> keys, and so on.



Note Some of navigation keys differ from one screen to another.

← Left/Right	The Left and Right <arrow> keys allow you to select a setup screen.</arrow>
↑ ↓ Up/Down	The Up and Down <arrow> keys allow you to select a setup screen or sub-screen.</arrow>
+– Plus/Minus	The Plus and Minus <arrow> keys allow you to change the field value of a particular setup item.</arrow>
Tab	The <tab> key allows you to select setup fields.</tab>
F1	The <f1> key allows you to display the General Help screen.</f1>

F10	The <f10> key allows you to save any changes you have made and exit Setup. Press the <f10> key to save your changes.</f10></f10>
Esc	The <esc> key allows you to discard any changes you have made and exit the Setup. Press the <esc> key to exit the setup without saving your changes.</esc></esc>
Enter	The <enter> key allows you to display or change the setup option listed for a particular setup item. The <enter> key can also allow you to display the setup sub- screens.</enter></enter>

3.3 Main Menu

When you first enter the Setup Utility, you will enter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section. The Main BIOS Setup screen is shown below.

BIOS SETUP UTILITY					
Main <mark>Advanced</mark>	PCIPnP I	Boot	Security	Chi	pset Exit
System Overview					Use [ENTER], [TAB] or [SHIFT-TAB] to
Version : SBC87830 X006 Build Date : 06/15/09			select a field.		
VBIOS Version : V1.00					Use [+] or [-] to configure system Time
Processor					
Genuine Intel (R) CPU N	270 @1.60G	Hz			
Speed :1600MHz					
System Memory					← Select Screen
Size : 1016MB					↑↓ Select Item
Q		FOC . 22			+- Change Field Tab Select Field
System Time System Date		[06:27 [Sun_6	2/17/2002]		Tab Select Field F1 General Help
ogotem parte		Louin C	271720021		F10 Save and Exit
					ESC Exit
v02.61 (C)Copyright 1	1985-20	06, American	n Meg	atrends, Inc.
System Time	e/Date				

Use this option to change the system time and date. Highlight

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

3.4 Advanced Menu

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

- CPU Configuration
- IDE Configuration
- SuperIO Configuration
- Hardware Health Configuration
- ACPI Configuration
- APM Configuration
- MPS Configuration
- PCI Express Configuration
- USB Configuration

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

BIOS SETUP UTILITY	
Main <mark>Advanced PCIPnP Boot Security</mark>	Chipset Exit
Advanced Settings	Configure CPU.
 WARNING: Setting wrong values in below sections may cause system to malfunction. CPU Configuration IDE Configuration SuperIO Configuration Hardware Health Configuration ACPI Configuration APM Configuration MPS Configuration PCI Express Configuration USB Configuration 	← Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit
v02.61 (C)Copyright 1985-2006, American	Megatrends, Inc.

• Configure advanced CPU settings

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

BIOS SETUP UTILITY	
Advanced	
Configure advanced CPU settings Module Version:3F.0E	Disabled for WindowsXP
Manufacturer:Intel Genuine Intel (R) CPU N270 @ 1.6G Frequency :1600MHz FSB Speed :532MHz Cache L1 :24KB Cache L2 :512KB Ratio Actual Value:12	
Max CPUID Value LimitDisabled]Execute-Disable Bit Capability[Enabled]Hyper Threading Technology[Enabled]Intel (R) SpeedStep (tm) tech[Enabled]Intel (R) C-STATE tech[Enabled]Enhanced C-States[Enabled]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
u02.61 (C)Comunight 1985-2006. American M	erratrends. Inc.

> Max CPUID Value Limit

You can enable this item to let legacy operating systems boot even without support for CPUs with extended CPU ID functions.

> Execute-Disable Bit Capability

This item helps you enable or disable the No-Execution Page Protection Technology.

> Hyper Threading Technology

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

> Intel (R) SpeedStep (tm) tech

This item helps you enable or disable the Intel SpeedStep Technology.

Intel (R) C-STATE tech

Use this item to enable or disable the C-State technology.

Enhanced C-States

This item allows you to enable or disable any available enhanced C-states (C1E, C2E, C3E, C4E and Hard C4E).

IDE Configuration

You can use this screen to select options for the IDE Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen. For items marked with "▶", please press <Enter> for more options.

BIOS SETUP UTILITY Advanced	
IDE Configuration	Options
ATA/IDE Configuration ICompatible Port0 SATA AHCI Speed: GEN 1 (1.5 Gb/sec) Primary IDE Master : [Not Detected] Secondary IDE Master : [Not Detected] Secondary IDE Slave : [Not Detected] Secondary IDE Slave : [Not Detected] Third IDE Master : [Not Detected] Third IDE Slave : [Not Detected] Third IDE Slave : [Not Detected] * Third IDE Slave : [Not Detected]	Disabled Compatible Enhanced
, [NOT Detected]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
v02.61 (C)Copyright 1985-2006, American M	egatrends, Inc.

> ATA/IDE Configuration

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

> Legacy IDE Channels

When the ATA/IDE Configuration is set to *Compatible*, this item will be displayed.

> Primary/Secondary/Third IDE Master/Slave

Select one of the hard disk drives to configure IDE devices

installed in the system by pressing <Enter> for more options.

• SuperIO Configuration

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

Configure Win627UHG Super 3	IO Chipset		Allows BIOS to Select Serial Port1 Base
Serial Port1 Address Serial Port1 IRQ Serial Port2 Address Serial Port2 IRQ Serial Port3 Address Serial Port3 IRQ Serial Port4 Address Serial Port4 IRQ	[3F8] [4] [2F8] [3] [3E8] [11] [2E8] [10]	Addresses	
		†∔ Sela +- Char F1 Gena	t Screen ect Item nge Option eral Help e and Exit

> Serial Port1 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 1. The Optimal setting is *3F8/IRQ4*. The Fail-Safe default setting is *3F8*.

> Serial Port1 IRQ

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

> Serial Port2 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 2. The Optimal setting is 2F8/IRQ3. The Fail-Safe setting is 2F8.

> Serial Port2 IRQ

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

> Serial Port3 Address

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

> Serial Port3 IRQ

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

Serial Port4 Address

This item specifies the base I/O port address and Interrupt Request address of serial port 4.

> Serial Port4 IRQ

This item specifies the IRQ used by the serial port 4.

• Hardware Health Configuration

This screen shows the Hardware Health Configuration, and a description of the selected item appears on the right side of the screen.

Advanced	BIOS SETUP UTILITY	
Hardware Health Configu	ration	
System Temperature CPU Temperature	:38°C/100°F :29°C/84°F	-
Vcore +1.05V +3.3V +12V	:1.152 V :1.032 V :3.328 V :12.288 V	
		 ← Select Screen ↑↓ Select Item F1 General Help F10 Save and Exit ESC Exit
	yright 1985-2006, American	Megatrends, Inc.

> System Temperature/CPU Temperature

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

ACPI Settings

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

BIOS SETUP	UTILITY
Advanced	
ACPI Settings	Select the ACPI
 ▶ Suspend mode [S1 (POS)] ▶ ACPI Version Features [ACPI v2.0] ▶ ACPI APIC support [Enabled] 	state used for System Suspend.
	 ← Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit
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• APM Configuration

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

	IOS SETUP UTILITY	
Advanced		
APM Configuration		Enable or disable APM.
Power Management/APM Video Power Down Mode Hard Disk Power Down Mode Suspend Time Out Throttle Slow Clock Ratio Keyboard & PS/2 Mouse Power Button Mode	[Enabled] [Suspend] [Suspend] [Disabled] [50/] [MONITOR]	
Advanced Resume Event Controls Resume On Ring Resume On RTC Alarm	(Disabled) (Disabled)	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
v02.61 (C) Copuright	1985-2006, American Med	natrends, Inc.

> 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 that the video subsystem enters when the BIOS places it in a power saving state after the specified period of display inactivity has

expired. The default setting is Suspend.

	ě í
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.

Hard Disk Drive Power Down Mode

This option specifies the power conserving state that the hard disk drive enters after the specified period of hard drive inactivity has expired. The default setting is *Suspend*.

Disabled	This setting prevents hard disk drive power down mode.
Suspend	This option cuts the power to the hard disk drives during a system suspend. This is the default setting.

Suspend Time Out (Minute)

This option specifies the length of time the system waits before it enters suspend mode. The default setting is *Disabled*.

Disabled	This setting prevents the system from entering suspend mode. This is the default setting.
1 Min	Set this item to allow the computer system to enter suspend mode after being inactive for 1 minute.
4 Min	Set this item to allow the computer system to enter suspend mode after being inactive for 4 minutes.
10 Min	Set this item to allow the computer system to enter suspend mode after being inactive for 10 minutes.

> Throttle Slow Clock Ratio

Use this item to specify the speed of the system clock when running the power saving states.

> Power Button Mode

This option specifies how the externally mounted power button on the front of the computer chassis is used. The

default setting is On/Off.

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

*** Advanced Resume Event Controls ***

> Resume On Ring

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

> Resume On RTC Alarm

You can set "Resume On RTC Alarm" item to enabled and key in Data/time to power on system.

• MPS Configuration

This screen shows the MPS (Multi Processor Specification) Configuration, and you can change its value. A description of the selected item appears on the right side of the screen.

	BIOS SETUP UTILITY	
Advanced		
MPS Configuration	Select MPS Revision.	
MPS Revision	[1.4]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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> MPS Revision

Use this item to select MPS (Multi Processor Specification) Revision 1.1 or 1.4. The default setting is *1.4*.

• PCI Express Configuration

This screen shows the PCI Express Configuration, and you can change its value. A description of the selected item appears on the right side of the screen.

BIOS SETUP UTILITY Advanced	
PCI Express Configuration Active State Power-Management [Disabled] ▶ SB PCIE Ports Configuration	— Enable/Disable PCI Express L0s and L1 link power states.
	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit

> Active State Power-Management

Use this item to enable or disable the function of Active State Power-Management to provide you with lower power consumption. The default setting is *Disabled*.

> SB PCIE Ports Configuration

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

Advanced		
Havancea		
PCIE Ports Configuration		Options
PCIE Port 0	[Auto]	
PCIE Port 1	[Auto]	Auto
PCIE Port 2	[Auto]	Enabled
PCIE Port 3	[Auto]	Disabled
PCIE Port 4	[Auto]	
PCIE Port 5	[Auto]	
PCIE High Priority Port	[Disabled]	
PCIE Port 0 IOxAPIC Enable PCIE Port 1 IOxAPIC Enable PCIE Port 2 IOxAPIC Enable PCIE Port 3 IOxAPIC Enable PCIE Port 4 IOxAPIC Enable PCIE Port 5 IOxAPIC Enable	[Disabled] [Disabled]	 ← Select Screen ↑↓ Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit
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• USB Configuration

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

B	IOS SETUP UTILITY		
Advanced			
USB Configuration		Enables support for legacy USB. AUTO	
Module Version - 2.24.3-13.4	option disables legacy support if		
USB Devices Enabled : 1 Keyboard		no USB devices are connected.	
Legacy USB Support USB 2.0 Controller Mode BIOS EHCI Hand-Off	[Enabled] [HiSpeed] [Enabled]		
		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit 	
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Legacy USB Support

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

> USB 2.0 Controller Mode

Use this item to configure the USB 2.0 controller. The default setting is *HiSpeed*.

> BIOS EHCI Hand-Off

Enabling this item provide the support for operating systems without an EHCI hand-off feature. The default setting is *Enabled*.

3.5 PCI PnP Menu

The PCI PnP menu allows users to change the advanced settings for PCI/PnP devices.

	BIOS SET	TUP UTILITY			
Main Advanced PCIPnP	Boot	Security	Chi	ipset	Exit
Advanced PCI/PnP Settings					r NVRAM during em Boot.
WARNING: Setting wrong value may cause system to				Jyste	
Clear NURAM Plug & Play O/S PCI Latency Timer Allocate IRQ to PCI VGA Palette Snooping PCI IDE BusMaster OffBoard PCI/ISA IDE Card IRQ3 IRQ4 IRQ5 IRQ7 IRQ9 IRQ10 IRQ11	INol INol IG41 IYes] IDisal IEnab IAutol IAuai IAuai IAuai IAuai IAuai IAuai	led] lable] lable] lable] lable] lable] lable]		+ †↓ +- F1 F10 ESC	Select Screen Select Item Change Option General Help Save and Exit Exit
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	BIOS SETUP UTILITY	
Main Advanced PCIPnP	Boot Security	Chipset Exit
OffBoard PCI/ISA IDE Card	[Auto]	▲ Size of memory block to reserve for legacy
IRQ3	[Available]	ISA devices.
IRQ4	[Ava i lable]	
IRQ5	[Ava i lable]	
IRQ7	[Available]	
IRQ9	[Available]	
IRQ10	[Available]	
IRQ11	[Available]	
IRQ14	[Available]	
IRQ15	[Ava i lable]	
DMA Channel 0 DMA Channel 1 DMA Channel 3 DMA Channel 5 DMA Channel 6 DMA Channel 7	[Avai lable] [Avai lable] [Avai lable] [Avai lable] [Avai lable] [Avai lable]	 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
Reserved Memory Size	[Disabled]	•
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Clear NVRAM

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Use this item to clear the data in the NVRAM (CMOS). Here are the options for your selection, *No* and *Yes*.

> Plug & Play O/S

When the setting is No, Use this item to configure all the devices in the system. When the setting is Yes and if you install a Plug and Play operating system, the operating system configures the Plug and Play devices not required for boot. The default setting is *No*.

> PCI Latency Timer

This item controls how long a PCI device can hold the PCI bus before another takes over. The longer the latency, the longer the PCI device can retain control of the bus before handing it over to another PCI device. There are several options for your selection.

> Allocate IRQ to PCI VGA

This item allows BIOS to choose an IRQ to assign for the PCI VGA card. Here are the options for your selection, *No*

and Yes.

> Palette Snooping

Some old graphic controllers need to "snoop" on the VGA palette, and then map it to their display as a way to provide boot information and VGA compatibility. This item allows such snooping to take place. Here are the options for your selection, *Disabled* and *Enabled*.

PCI IDE BusMaster

This item is a toggle for the built-in driver that allows the onboard IDE controller to perform DMA (Direct Memory Access) transfer. Here are the options for your selection, *Disabled* and *Enabled*.

> OffBoard PCI/ISA IDE Card

This item is for any other non-onboard PCI/ISA IDE controller adapter. There are several options for your selection.

> IRQ3/4/5/7/9/10/11/14/15

These items will allow you to assign each system interrupt a type, depending on the type of device using the interrupt. The option "Available" means the IRQ is going to assign automatically. Here are the options for your selection, *Available* and *Reserved*.

> DMA Channel 0/1/3/5/6/7

These items will allow you to assign each DMA channel a type, depending on the type of device using the channel. The option "Available" means the channel is going to assign automatically. Here are the options for your selection, *Available* and *Reserved*.

3.6 Boot Menu

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

- Boot Settings Configuration
- Boot Device Priority
- Removable Drives
- Lan Boot Settings Configuration

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

				TUP UTILITY			
Main	Advanced	PCIPnP	Boot	Security	Chi	ipset	Exit
Boot S	ettings						ure Settings System Boot.
► Boot	Settings Co	nfiguratio				uur rng	
	Device Prio vable Drives						
► Lan E	Boot Settings Co	onfiguration					
						†∔ _	elect Screen Select Item Go to Sub Screen
							General Help Save and Exit Exit
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Boot Settings Configuration

	S SETUP UTILITY ot		
Boot Settings Configuration Quick Boot D Quiet Boot D AddOn ROM Display Mode D	Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the suptor		
PS/2 Mouse Support Di Wait For 'F1' If Error Di	On] Auto] Enabled] Enabled]	system.	
		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit 	
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> Quick Boot

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

> Quiet Boot

Disabled	Set this item to allow the computer system to display the POST messages.
Enabled	Set this item to allow the computer system to display the OEM logo. This is the default setting.

> AddOn ROM Display Mode

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

Boot Num-Lock

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

> PS/2 Mouse Support

This item determines if the BIOS should reserve IRQ12 for the PS/2 mouse or allow other devices to make use of this

IRQ. Here are the options for your selection, *Auto*, *Enabled* and *Disabled*.

> Wait For 'F1' If Error

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

> Hit 'DEL' Message Display

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

• Boot Device Priority

The Boot Device Priority screen specifies the the boot device priority sequence from the available devices.

Boot Device Priority	Specifies the boot		
1st Boot Device	[USB:Generic STORAG]	sequence from the available devices.	
		A device enclosed in parenthesis has been disabled in the corresponding type menu.	
		 ← Select Screen 14 Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit 	

• Removable Drives

Use this screen to view the removable drives in the system. The BIOS will attempt to arrange the removable drive boot sequence automatically. You can also change the booting sequence.

	BIOS SETUP UTILITY Boot		
Removable Drives		Specifies the boot sequence from the	
1st Drive	[USB:Generic STORAG]	available devices.	
		 Select Screen Select Item Change Option General Help Save and Exit ESC Exit 	

•

Lan Boot Settings Configuration The Lan Boot Settings Configuration can enable or disable Lan Boot ROM to allow the system boot on LAN.

	BIOS SETUP UTILITY	
	Boot	
Lan Boot Settings Co	Allows System boot on LAN.	
Lan Boot ROM	(Disabled)	 On LHN. Select Screen Select Item Change Option General Help Save and Exit ESC Exit
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3.7 Security Menu

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

			BIOS SE	TUP UTILITY			
Main	Advanced	PCIPnP	Boot	Security	Chi	ipset	Exit
	ty Settings isor Password assword	l :Not Ins :Not Ins			_	Insta passw	ll or Change the ord.
	Supervisor D User Passwor						
Boot S	ector Virus 1	Protection	ı [Disa	bled]			
						_t∔	Save and Exit
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> 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.

> Boot Sector Virus Protection

This option is near the bottom of the Security Setup screen. The default setting is *Disabled*.

Disabled	Set this item to prevent the Boot Sector Virus Protection. This is the default setting.
Enabled	Select Enabled to enable boot sector protection. It displays a warning when any program (or virus) issues a Disk Format command or attempts to write to the boot sector of the hard disk drive. If enabled, the following appears when a write is attempted to the boot sector. You may have to type N several times to prevent the boot sector write. Boot Sector Write! Possible VIRUS: Continue (Y/N)? _ The following appears after any attempt to format any cylinder, head, or sector of any hard disk drive via the BIOS INT 13 Hard disk drive Service: Format!!! Possible VIRUS: Continue (Y/N)?

3.8 Chipset Menu

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

- North Bridge Configuration
- South Bridge Configuration

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

				TUP UTILITY		
Main	Advanced	PCIPnP	Boot	Security	Chi	pset Exit
Advanced	l Chipset S	ettings				Configure North Bridge features.
WARNING: Setting wrong values in below sections may cause system to malfunction.						Teatures.
	Bridge Con Bridge Con					
						 ✓ Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit FSC Exit
	v02.61 (C) Copyr igh	t 1985-2	006, American	n Meg	atrends, Inc.

• North Bridge Configuration

Chipset					
North Bridge Chipset Configurat	tion	Options			
DRAM Frequency Configure DRAM Timing by SPD	[Auto] [Enabled]	Auto 400 MHz 533 MHz			
Boots Graphic Adapter Priority Internal Graphics Mode Select		555 HIL			
▶ Video Function Configuration		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit 			
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> DRAM Frequency

This item allows you to control the Memory Clock.

> Configure DRAM Timing by SPD

This item can enable or disable DRAM timing by SPD (Serial Presence Detect) device, which is a small EEPROM chip on the memory module, containing important information about the module speed, size, addressing mode and various parameters.

> Boot Graphic Adapter Priority

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

> Internal Graphics Mode Select

This item allows you to select the amount of system memory used by the internal graphics device.

> Video Function Configuration

Press <Enter> for the sub-menu for setting up video function.

	BIOS SETUP UTILITY	Chipset
Video Function Configuration	I	Options
DVMT Mode Select DVMT/FIXED Memory Boot Display Device Flat Panel Type Local Flat Panel Scaling	[DVMT Mode] [128MB] [CRT+LFP] [800x600 18Bit] [Auto]	- Fixed Mode DVMT Mode Combo Mode
		 Select Screen Select Iten Change Option General Help Save and Exit ESC Exit
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South Bridge Configuration

	BIOS SETUP UTILITY	
	ll.	ipset
South Bridge Chipset Configura	ation 🔺	Options
USB Functions USB 2.0 Controller Audio Controller	[Enabled] [Enabled] [Enabled]	Disabled Enabled
SLP_S4# Min. Assertion Width Restore on AC Power Loss	[1 to 2 seconds] [Last State]	
PCIE Ports Configuration PCIE Port 0 PCIE Port 1 PCIE Port 2 PCIE Port 3 PCIE Port 4 PCIE Port 5 PCIE High Priority Port PCIE Port 0 IOxAPIC Enable PCIE Port 1 IOxAPIC Enable		 ← Select Screen ↑↓ Select Item ← Change Option F1 General Help F10 Save and Exit ESC Exit
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	BIOS SETUP UTILITY	Chipset
Audio Controller	[Enabled]	Options
SLP_S4# Min. Assertion Width Restore on AC Power Loss	[1 to 2 seconds] [Last State]	Disabled Enabled
PCIE Ports Configuration		
PCIE Port 0	[Auto]	
PCIE Port 1	[Auto]	
PCIE Port 2	[Auto]	
PCIE Port 3	[Auto]	
PCIE Port 4	[Auto]	
PCIE Port 5	[Auto]	
PCIE High Priority Port	[Disabled]	← Select Screen
		↑↓ Select Item
PCIE Port 0 IOxAPIC Enable	[Disabled]	+- Change Option
PCIE Port 1 IOxAPIC Enable	[Disabled]	F1 General Help
PCIE Port 2 IOxAPIC Enable	[Disabled]	F10 Save and Exit
PCIE Port 3 IOxAPIC Enable		ESC Exit
PCIE Port 4 IOxAPIC Enable	[Disabled]	
PCIE Port 5 IOxAPIC Enable	[Disabled]	*
	4005 2005 4	
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> USB Function

This item allows you to enable or disable USB function.

> USB 2.0 Controller

This item allows you to enable or disable the USB 2.0 controller.

> Audio Controller

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

> SLP_S4# Min. Assertion Width

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

> Restore on AC Power Loss

This item can control how the PC will behave once power is restored following a power outage, or other unexpected shutdown.

> PCIE Port Configuration

This item allows you to set or disable the PCI Express Ports.

3.9 Exit Menu

The Exit menu allows users to load your system configuration with optimal or failsafe default values 0

BIOS SETUP UTILITY					
Main Advanced	PCIPnP	Boot	Security	Chi	ipset <mark>Exit</mark>
Main Advanced Exit Options Save Changes and Ez Discard Changes and Discard Changes Load Optimal Defau Load Failsafe Defau	kit 1 Exit Its	Boot	Security	Chi	 ipset Exit Exit system setup after saving the changes. F10 key can be used for this operation. ← 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.

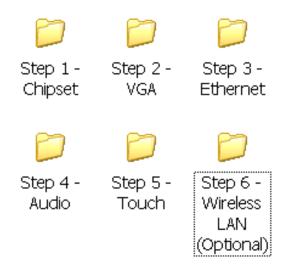
Select Load Fail-Safe Defaults from the Exit menu and press <Enter>. Select Ok to load Fail-Safe defaults.

CHAPTER 4 DRIVERS INSTALLATION

4.1 System

GOT-5100T-830 supports Windows 2000/XP. To facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

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



2. Select all files and follow the installing procedure.

4.2 Touch Screen

The GOT-5100T-830 uses the 5-wire analog resistve. There are the specification and driver installation which are listed below.

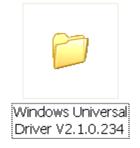
4.2.1 Specification

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

4.2.2 Driver Installation- Windows XP

The GOT-5100T-830 provides a touch screen driver that users can install it under the operating system Windows XP. To facilitate installation of the touch screen driver, you should read the instructions in this chapter carefully before you attempt installation.

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



2. Follow the installing procedure and press OK.

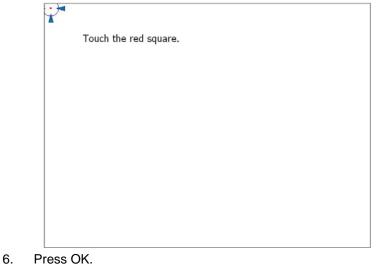
3. Click Start menu and select "PenMount Utilities"; and then, a "PenMount Control Panel" pops out.

🐐 PenMount Control Pane	al de la companya de	
Device Multiple Monitors Too	ls About	
Penmount Cor Version 1.0	itrol Panel .0.19	
Installed Device(s)		
Device 0 (PenMount 6000 I	JSB)	
Support E-mail :	penmount@seed.net.tw	
Support Website :	http://www.penmount.com.tw	
		ОК

- Select the "Standard Calibrate" tab.
- 5. Calibration:

4.

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.



Installation of Drivers

4.3 Embedded O.S.

The GOT-5100T provides the Windows XP Embedded and Windows CE.Net 6.0. The O.S. is supported devices which are listed below.

4.3.1 Windows XP Embedded

Here are supported onboard devices:

- Onboard Multi I/O
- SATA HDD
- USB
- PS2 Keyboard and mouse
- CRT/LCD display(Default 18bits Resolution 800x600)
- 10/100/1000 base-T Ethernet
- Compact Flash
- Onboard Audio
- Touch Screen

PenMount Touch screen

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

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

4.3.2 Windows CE.NET 6.0

Here are supported onboard devices:

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

Calibration Touch screen

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

Calibration:

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