

EverServ 500 Users Guide



PN770504019



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INTRODUCTION

The following guide provides information about the EverServ 500. It is presented in four sections as outlined in the table below.

Introduction	Register cabling diagram, sample system configurations.
Equipment Description	Specifications, a detailed description of each system components.
Turn On/Off	Turning on/off EverServ register.
BIOS	Provides information on BIOS configurations.

GLOSSARY OF TERMS

- LCD Liquid Crystal Display
- ◆ VGA Video Graphics Array
- EFT Electronic Funds Transfer
- ◆ LAN Local Area Network
- DDR Double Date Rate
- POS Point of Sale
- BIOS Basic Input Output System
- PCI Peripheral Component Interconnect
- ◆ PnP Plug and Play
- IDE Integrated/Intelligent Drive Electronics
- ACPI Advanced Configuration and Power Interface
- SSD Solid State Drive

Item

POS REGISTER

- Description
- 1. Power Indicator Shows that power is present.
- 2. Magnetic card reader Accepts employee keycards. Provides access to functions.
- 3. LCD Display A touch screen that shows programming or order information.
- 4. Customer Display Displays to the customer order total, tax total, and any change due. It may also show present advertisement information or messages.





CONNECTOR WELLS

	Item	Description
1.	Cash Drawer Receptacle	Connects to cash drawer. (19V DC/Default)
2.	USB Ports	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers.
3.	LAN	Connects to a LAN cable.
4.	COM RJ45 Port	Connects to external peripherals.
5.	VGA	Connects to other displays.
6.	Power Input	Provides power to unit.
7.	Power Switch	Push in to turn unit on, push and hold to turn unit off. You can reach it by sliding your hand under the right side of the register.



FEATURES

Description

PROCESSORS:

Intel Cedar Trail 1.86 GHz D2550

MEMORY:

2 GB/1066MHz (Up to 4 GB - 1 Slot supported) – (M5100, M5100-01 or M5100-02) 4GB/1066MHz (M5100-03 only)

DISPLAYS:

15" XGA LCD Integrated 2x20 LCD Display

MAGNETIC STRIP READERS:

Built in 3 Track USB Swipe Reader

PROGRAM/DATA STORAGE:

320 GB 2.5" SATA HDD – (M5100 or M5100-01 only) 60 GB Minimum SATA SSD – (M5100-02 or M5100-03 only)

CASH DRAWER:

19V DC Default Cash Drawer Adapter Cable (C2355)

SERIAL PORT ADAPTER:

2- C8200 RJ-50/DB-9 Serial Adapter Cables

Introduction

This user manual describes the Phoenix BIOS setup program and configuration options of the EverServ motherboard. The BIOS setup program allows users to modify the basic system configuration of the EverServ motherboard.

Starting Setup

The PHOENIX BIOS is activated when the computer is turned on. The setup program can be activated in one of two ways.

- 1. Press the **DELETE** key as soon as the system is turned on or
- 2. Press the **DELETE** key when the "**Press Del to enter SETUP**" message appears on the screen.

If the message disappears before the **DELETE** key is pressed, restart the computer and try again.

Using Setup

Use the arrow keys to highlight items, press **ENTER** to select, use the PageUp and PageDown keys to change entries, press **F1** for help and press **ESC** to quit. Navigation keys are shown in.

Key	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left hand side
Right arrow	Move to the item on the right hand side
Esc key	Main Menu – Quit and not save changes
	Status Page Setup Menu and Option Page Setup Menu Exit current
	page and return to Main Menu
Page Up key	Increase the numeric value or make changes
Page Dn key	Decrease the numeric value or make changes
F1 key	General help, only for Status Page Setup Menu and Option Page Setup
	Menu
F10 key	Save all changes, only for Main Menu

Getting Help

When **F1** is pressed a small help window describing the appropriate keys to use and the possible selections for the highlighted item appears. To exit the Help Window press **ESC** or the **F1** key again.

BIOS Menu Bar

The menu bar on top of the BIOS screen has the following main items:

- **Main** Changes the basic system configuration.
- Advanced Changes the advanced system settings.
- **Boot** Changes the system boot configuration.
- **Exit** Selects exit options and loads default settings

The following sections completely describe the configuration options found in the menu items at the top of the BIOS screen and listed above.

Main

The **Main** BIOS menu appears when the **BIOS Setup** program is entered. The **Main** menu gives an overview of the basic system information.

System Information		Item Specific Hel
Boot Features System Date System Time	[06/21/2012] [21:06:11]	Display System Information.

BIOS Menu 1: Main

➔ System Information

The **System Information** lists a brief summary of different system components. The fields in **System Information** cannot be changed. The items shown in the system overview include:

- Phoenix BIOS: Displays auto-detected BIOS information
 - O Version: Current BIOS version
 - O Build Date: Date the current BIOS version was made
- **Processor**: Displays auto-detected CPU specifications
 - O **Speed**: Lists the processor speed
 - System Memory: Displays the auto-detected system memory.
 - O Size: Lists memory size

The System Overview field also has two user configurable fields:

→ System Time [xx:xx:xx]

Use the **System Time** option to set the system time. Manually enter the hours, minutes and seconds. → **System Date [xx/xx/xx]**

Use the System Date option to set the system date. Manually enter the day, month and year.

Advanced

Use the Advanced menu to configure the CPU and peripheral devices through the following sub-menus:

WARNING:

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

- Boot Configuration
- Processor Configuration
- Serial ATA (SATA)
- North Bridge Configuration
- South Bridge Configuration
- SIO Configuration
- HW Monitor
- Intel Fast Flash Standby
- Power Configuration
- LCD Brightness Configuration

Setting items on this screen to incorrect values may cause the system to malfunction!	
Boot Configuration Processor Configuration Serial AIA (SATA) Morth Bridge Configuration South Bridge Configuration SID Configuration HW Monitor Intel Fast Flash Standby Power Configuration LCD Brightness Configuration	Set Boot Configuration.

BIOS Menu 2: Advanced

Boot Configuration

Use the **Boot** menu to configure system boot options.

Boot Configu	ration	Item Specific Help
LAN OPROM Selection Quick Boot Diagnostic Splash Screen Diagnostic Summary Screen BIOS Level USB USB Legacy UEFI Boot Legacy Boot Load OPROM	(Disabled) (Disabled) (Disabled) (Disabled) (Enabled) (Enabled) (Enabled) (Enabled) (All)	This is used to select LAN OPROM for quick boot minimal configuration.
1 Help 14 Select Item		F9 Setup Default:

Processor Configuration

Phoenix SecureCore Tiano Setup Advanced **Processor** Configuration Item Specific Help Single Processor Mode Intel(R) HT Technology Enable single Disabled [Enabled] processor mode. Enable XD [Enabled] Machine Check [Enabled] Fast Strings [Enabled] Processor Power Management

Change Values

Select ► Sub-Menu F10

Setup Defaults

Save and Exit

Use the **Processor Configuration** menu to configure Processor options.

Esc Exit ↔ Select Menu BIOS Menu 4: PROCESSOR Configuration

Help 14 Select Item

Serial ATA (SATA)

Use the Serial ATA (SATA) configuration menu to configure devices.

	(SATA)	Item Specific Help
SATA Device SATA Controller Mode Device 0 (Port 0) Device 1 (Port 1) SATA Port 0 Configuration SATA Port 1 Configuration	(Enabled) (AHCI) INot Installed J (TOSHIBA MK3276 - 32)	Enable/Disable SATA Device.

BIOS Menu 5: Serial ATA(SATA)



North Bridge Configuration

Use the North Bridge Configuration menu to configure the North Bridge chipset.

Advanced Advanced		
North Bridge	Configuration	Item Specific Hely
Clock Spread Spectrum DMI ASPM	[<mark>D isabled]</mark> [Enabled]	Enable Clock Clock Chip's Spread Spectrum Feature

BIOS Menu 6: North Bridge Configuration

South Bridge Configuration

Use the **SouthBridge Configuration** menu to configure the South Bridge chipset.

South Bridge Configuration SMBUS Device		Fachla (Dirachla OMDUR
Enable Serial IRQ Serial IRQ Mode HPET Support HPET Memory Map BAR SB USB Config SB PCI Express Config	(<u>Enabled</u>) (Enabled) (Continuous) (Enabled) (FED00000)	Device.

BIOS Menu 7: South Bridge Configuration

SIO Configuration

SIO Configuration		
Serial Port 1	CINADIC	
Base I/O Address:	[3F8]	
Interrupt:	[IRQ4]	
Serial Port 2	[Enable]	
Base I/O Address:	[2F8]	
Interrupt:	[IRQ3]	
Serial Port 3	[Enable]	
Base I/O Address:	[3E8]	
Interrupt:	[IRQ11]	
Serial Port 4	[Enable]	
Base 1/U Address:	[2E8]	
Interrupt:	[IRQ12]	
Serial Port 5		
Interrunt		
interrupt:	шкүзт	
		144

The SIO Configuration menu configures LPC settings.

BIOS Menu 8: SIO Configuration

	Phoenix Securecore Hano Secup
Advanced	
	SIO Configuration
Base I/O Address: Interrupt: Serial Port 3 Base I/O Address: Interrupt: Serial Port 4 Base I/O Address: Interrupt: Serial Port 5 Base I/O Address: Interrupt: Serial Port 6 Base I/O Address: Interrupt:	(2F8) (1RQ3) (Enable] (3E8) (1RQ11) (Enable] (2E8) (1RQ12) (Enable] (4F8) (1RQ5) (Enable] (4E8) (1RQ5) (Enable] (1RQ5) (IRQ5) (
Fi Help 14 Select Esc Exit ↔ Select	Item +/- Change Values F9 Setup Defaults Menu Enter Select > Sub-Menu F10 Save and Exit

HW Monitor

The HW Monitor menu monitors system voltages and temperatures.

CPU Temperature [+65 C] System Temperature [+54 C] VCore [1.184 V] 12V [11.904 V] 3.3V [3.344 V] 5V [5.067 V]	HW Monitor

Intel Fast Flash Standby



Use the Intel Fast Flash Standby menu is to configure Intel Flash Standby, only for AHCI enable.

BIOS Menu 9: Intel Fast Flash Stanby

Power Configuration

Use the **Power Configuration** menu to select power options.

Phoenix Securetore Tiano Setup Advanced		
Power Configuration		Item Specific Help
Power Type Soft-Off by PVR-BTIN Restore AC Power Loss Wake on PCIE LAN Wake on Ring, onboard touch Wake on RTC	(TTO) IDelay 4s] IPower OffJ IEnabledJ IACPI S3J IDisabledJ	Power Type
En Help 14 Select Item +/ Esc Exit + Select Menu Fr	/- Change Values	F9 Setup Defaults F10 Save and Exit

BIOS Menu 10: Power Configuration

LCD Brightness Configuration

Use the LCD Brightness Configuration menu to select power options for VGA/COM and control LCD Brightness.



BIOS Menu 11: VGA/COM Power and LCD Brightness Configuration

Boot

Use the **Boot** menu to configure system boot priority options.

	Item Specific Help
Boot Priority Order 1. USB HDD: 2. USB CD: 3. USB FDD: 4. ATAPI CD: 5. ATA HDDO: 6. ATA HDDD: 8. Internal Shell 9. PCI LAN: 10. ATA HDD: TOSHIBA MK32766SX	Keys used to view or configure devices: 1 and 4 arrows Select a device. '+' and '-' move the device up or down. 'Shift + 1' enables or disables a device. 'Del' deletes an unprotected device.
F1 Help 14 Select Item -/- Change Va	lues F9 Setup Defaults

BIOS Menu 12: Boot

Use the Exit menu to load default BIOS values, optimal failsafe values and to save configuration changes.



BIOS Menu 13:Exit

→ Exit Saving Changes

Use the **Exit Saving Changes** option to save the changes made to the BIOS options and to exit the BIOS configuration setup program.

→ Exit Discarding Changes

Use the **Exit Discarding Changes** option to never save the changes made to the BIOS options and to exit the BIOS configuration setup program.

→ Load Setup Defaults

Use the Load Setup Defaults option to reset all standard default values.

➔ Discard Changes

Use the **Discard Changes** option to load the original value of this boot time.

➔ Save Changes

Use the **Save Changes** option to save the changes made to the BIOS options and to not exit the BIOS configuration setup program.

SAFETY

- Before connecting cables or devices to connector wells, please turn off the power first thus ٠ preventing potential ESD damage.
- The service related to human safety is not allowed because this device may have the possibility of ٠ the radio interference.
- As this equipment has undergone EMC registration for business purpose ("A" class), the seller ٠ and/or the buyer is asked to beware of this point and designed to be used in the area, except for home use.

Battery Warning A lithium coin-type battery is installed on the EverServ 500 motherboard. If this battery is replaced, it must be replaced with an equivalent battery type. Dispose of used battery according to the local disposal instructions.

PAR PHONE NUMBERS

Service

USA: 800.382.6200

Canada: 800.387.4963

Parts

USA: 800.PAR.PART

Canada: 800.387.4963

Sales

Continental USA except New York: 800.448.6505

New York State Only: 800.533.6311

Outside Continental USA: 315-738-0600

Driver Support

http://www.partech.com/restaurant/services/contact-support/