Lite-On Tech Corp.

SCENIC Edition X101 Mainboard

USER'S MANUAL

Intel® Pentium® 4 Processor Motherboard Rev. 1.0

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Chapter 1: Introduction

SCENIC Edition X101-Mainboard Specification and 1-1 Features

Processor

- Socket478 (CPU Clear Out Zone)
- Support single Intel® Pentium 4 3.06GHz+ 400/533 Mhz (Willamette /Northwood) & Celeron processor

Chipset

- Intel 845GV
- Intel ICH4

Super I/O

SMSC LPC47M192 •

Front Side Bus Frequency

400/533 MHz

Memory

- Supports 2 x184 pin DIMM sockets
- Supports Non-ECC DDR266/DDR333 SDRAM
- Memory bandwidth up to 2.7 GB/s
- Support 64Mb, 128Mb, 256Mb, and 512Mb SDRAM technologies.
- Support minimum 64MB to 2GB maximum.
- Support suspend-to-RAM power state (ACPI S3)

Clock Generator

CYPRESS CY28323

Video

- AGP v2.0 compliant
- Integrated Intel Extreme Graphic 2D/3D acceleration
- Integrated 350MHz 24bits RAMDAC
- Supports 4x AGP data transfers and 4x Fast Writes
- Optimized point-to-point topology using 1.5V signaling in 4x model

Audio

- ADI AD1981b codec.
- 3D audio compliant with AC'97 rev.2.3

LAN (option)

BROADCOM BMC4401 32bit PCI 10/100 baseT LAN

IDE Ports

- Support all PIO modes
- 2 x IDE ports support up to four devices
- Support Ultra DMA 33/66/100

Expansion Slots 3 x PCI slots

- BIOS
 - 4Mbit flash EEPROM
 - AMI® BIOS, PnP, ACPI, SMBIOS 2.3, Boot Block, DMI

Manageability

WfM 2.0, DMI 2.0, WOL, SMBus

Industrial Standard

- PCI 2.2 compliant
- USB 2.0

Additional Features

- Keyboard/Mouse/USB wake up
- Support S1,S3,S4 and S5 ACPI status
- Hardware monitor capability

Rear Side I/O Ports

- 1 x PS2 keyboard port
- 1 x PS2 mouse port
- 4 x USB ports
- 1 x RJ-45 LAN connector (option)
- 1 x Serial port
- 1 x Parallel port
- 1 x VGA connector
- 3 x Audio jacks (optional 2 channel audio output)

On Board I/O Interface

- 1 x ATX power connector
- 1 x +12V power connector
- 1 x Floppy connector
- 1 x Front panel connector (Switch, LED, IRDA) (ON / Flash / OFF)
- 1 x Header for front side audio LINE-OUT and MIC-IN
- 1 x onboard buzzer
- 1 x Fan headers for CPU, chassis and system
- 2 x ATAPI headers (CD IN, AUX IN)
- 1 x Header to support two USB ports at front side
- 1 x Header for chassis intrusion (option)

Board Dimensions

Micro ATX form factor

• 9.6" x 9.6" (24.4cm x 24.4cm)

1-2 SCENIC Edition X101-Mainboard Layout Diagram



Figure 1-2. SCENIC Edition X101-Mainboard Layout Diagram

1-3 Back Panel Connectors Diagram



Figure 1-3. Back Panel Connectors

Chapter 2: Hardware Installation

Before starting installing the mainboard, an ATX12V power supply is required to meet the power requirement of Intel Pentium[®] 4 processor. The mainboard, like other parts of your system, is subject to damage by static electricity. Be sure that you are properly grounded (LITE-ON Technology Corp. recommends that you wear an anti-static strap or touch a grounded object) and unplug your system before starting any hardware installation.

WARNING: Before proceeding with the installation, turn the ATX12V power supply off, or disconnect the power cord before install or unplug any connectors or add-on cards. Failing to do so may cause the mainboard components or add-on cards to malfunction or damage.

2-1 Installing the Motherboard

Align the mainboard with the computer chassis. Remove any un-aligned studs to prevent from short-circuiting the mainboard. Install the back I/O shield onto the chassis first, and then align the mainboard with the I/O shield and the studs. Secure the mainboard by the correct screws.

WARNING: Failing to remove the un-aligned metal studs may cause shorting on the PCB circuit. Please REMOVE the metal studs or spacers if they are already fastened on the chassis base and are without mouting-holes on the motherbard to align with.

2-2 Install the CPU and Heatsink

This motherboard uses a CPU socket called Socket478 to install the 478 pin Intel[®] Pentium[®] 4 & Celeron[®] CPU. The PCU should always have a heatsink and cooling fan to prevent CPU from overheating.

- ✓ Ensure the CPU type is supported by this mainboard.
- ✓ Please use an Intel approved CPU cooling fan to prevent CPU from overheating.
- ✓ Use proper thermal paste to provide better thermal transfer between CPU and heatsink.
- \checkmark Ensure the CPU fan power cable is firmly plugged into the onboard CPU fan connector.
- 1. Unlock the CPU socket by pulling the lever up to a 90-degree angle.
- 2. Position the CPU above the socket such as that the marked corner (pin 1) matches the corner near the base of the lever.
- 3. Place the CPU into the socket. If the CPU is unable to insert properly, check its orientation and attempt to re-install.

WARNING: DO NOT force the CPU into the socket. Installing the CPU with force will prompt bending of the pins and create damaged to the CPU.

- 4. Close the socket by lowering the lever and locking the lever in place.
- 5. Place the thermal paste evenly on the top of the CPU IHS (the metal plate).
- 6. Align and place the CPU heatsink on the top of the CPU IHS.
- 7. Firmly secure the CPU heatsink onto the CPU heatsink retainer.
- 8. Connect CPU fan power cable into the CPU fan connector on the motherboard to complete the installation process.

2-3 Install System Memory

This motherboard provides two 184-pin DDR DIMM slots for the memory expansion. This mainboard supports 64Mbit, 128Mbit, 256Mbit, 512Mbit DDR DRAM technology. In order to create memory array, certain rules must be followed. The following set of rules allows for optimum configurations.

NOTE: Intel 82845GV supports DDR333 SDRAM.

- 1. Locate the DDR DIMM slot.
- 2. Push the white retaining clips on each side of the DDR DIMM slot outward.
- 3. Matched the notches on the gold-finger of the memory module to the ridges in the DIMM socket.
- 4. Insert the memory module vertically into place. When properly inserted, the white retaining clips will move inward to lock in the module.
- 5. Total Memory Sizes with Unbuffered DDR DIMM

DIMM1	DIMM2	Total Memory Size
64MB	Empty	64MB
64MB	64MB	128MB
Empty	64MB	64MB
128MB	Empty	128MB
Empty	128MB	128MB
128MB	128MB	256MB

2-4 Install Expansion Cards

The mainboard supports three PCI 2.2 32-bit Master PCI bus slots (support 3.3V/5V PCI bus interface).

- 1. Unpack the expansion cards that you are going to install. Read the expansion card's installation guide carefully before install the cards into the mainboard.
- 2. Disconnect the power or unplug the power cord from the power supply.
- 3. Remove the computer's chassis cover and the slot bracket form the chassis.
- 4. Firmly insert the expansion card downward until the card is locked by the latch on the PCI slot. To remove the expansion card from the PCI slot, please push the latch sideways to release the PCI card. Ensure the expansion card's metal bracket is correctly seated in the intended place.
- 5. Fasten the expansion card with the correct screw.
- 6. Connect the necessary cables if required.
- 7. Close the computer chassis's cover and reconnect the power cord to the power supply.
- 8. Power up the computer, if necessary, setup BIOS utility of expansion card form BIOS.
- 9. Install related driver form the operating system.

2-5 Jumpers, Connectors, Headers and Indicators

Inside the case of any computer there are several cables and jumpers that have to be connected. These cables and jumpers are usually connected one-by-one to connectors located on the board. During the installation you have to pay attention to the orientation of the connectors, headers and the cables. Always locate the position of the first pin on the connector.

Jumpers

JP1: BIOS Config.

1-2: Normal (Default)2-3: Config. (Safe Speed)OPEN: Recover

JP2: FWH Lock

1-2: Lock (Default) 2-3: Unlock

Connectors / Headers

- 1. J30: 1X6 Power Connector
- 2. J18: +12V Power Connector
- 3. J22: DIMM socket 1
- 4. J23: DIMM socket 2
- 5. J19: AGP (1.5V) connector
- 6. J20: Front USB header
- 7. J28: Primary IDE connector
- 8. J25: Secondary IDE connector
- 9. J16: PCI connector 1
- 10. J15: PCI connector 2
- 11. J14: PCI connector 3
- 12. J31: Floppy drive connector
- 13. J35: Chassis FAN
- 14. J4: PS2 Keyboard and Mouse
- 15. J21: CPU FAN
- 16. J17: SYSTEM FAN
- 17. J2: COM 1
- 18. J1: VGA Connector
- 19. J5: Printer Port
- 20. J29: ATX power connector
- 21. J34: WOR header
- 22. J28: Chassis Intrusion header.
- 23. J13: WOL header
- 24. J27: Front Panel header
- 25. J33: SCSI LED input header
- 26. J6-1: Line-out (Bottom Side)
- 27. J6-2: Line-in or SURR R-L out (Middle)
- 28. J11: AUX LINE-IN header
- 29. J7: USB/LAN connector
- 30. J9: Reserved (SPDIF)
- 31. J8: Front Side Audio Header

Chapter 3: BIOS Setup

The BIOS is a boot program located in a Flash Memory chip on the mainboard. It is used to communicate with the hardware before the operating system (OS) takes the control of the system. Its main function is to manage the setup of the motherboard and interface card parameters, including simple parameters such as time, date, hard disk drive, as well as more complex parameters such as hardware synchronization, device operating mode, and the operating speed of the CPU.

Do not change the parameters inside the BIOS unless you fully understand their meanings and consequences: The parameters inside the BIOS are used to setup the hardware synchronization or the device-operating mode. If the parameters are not correct, they will produce errors, the computer will crash, and sometimes you will not even be able to boot the computer after it has crashed. We recommend that you do not change the parameters inside the BIOS unless you are very familiar with them. If you are not able to boot your computer anymore, please refer to Chapter 2 Hardware Installation, section 2-5 Jumpers - "Erase CMOS data".

Press <F10> to enter BIOS setup

Immediately press the **<F10**> key after power up the system. This will let you access into the BIOS Setup menu. If the post disappears before you response and the OS (operation system) starts, please restart the system by using the "Start" or "Reset" button on the chassis.

How to operate the BIOS menu

In the BIOS Setup menu, you can see several options. You will need the following function keys to operate the BIOS.

- ✓ Press<**Esc>** to exit the BIOS Setup menu.
- ✓ Press $\uparrow\downarrow$ ← → (up, down, left, right) to choose, in the main menu, the option you want to confirm or to modify.
- ✓ Press <F9> to load the CMOS optimal default settings
- ✓ Press <**F10**> to save these parameters into the CMOS and to exit the BIOS Setup menu.
- ✓ Press <<u>+</u>> to change values.

3-1 The Main Menu

After entering the BIOS, the main BIOS menu will appear on the screen. This main menu allows you to select twelve setup functions and two save/exit choices. Use the $\uparrow\downarrow \leftarrow \rightarrow$ keys to select the items and press **<Enter>** to confirm and enter the sub-menu.

1. System Information

The System Information is used to provide the main system specification for users.

2. Standard CMOS Setup

This setup page includes all the basic configuration parameters of the BIOS. Including the date, VGA, FDD and the HDDs settings. Use the $\uparrow\downarrow \leftarrow \rightarrow$ keys to select the items and press **<Enter>** to confirm and enter the sub-menu.

Time (hh: mm: ss):

You can set the time in this item: hour (hh), minute (mm) and second (ss).

Date (mm: dd: yy):

You can set the date in this item: month (mm), date (dd) and year (yy).

Drive A:

If you have installed the floppy disk drive here, then you can select the type of floppy drive it can support. Available option: (None) (360K, 5.25 inch) (1.2M, 5.25 inch) (720K, 3.5 inch) (1.44M, 3.5 inch) (2.88M, 3.5 inch)

IDE Devices:

System will auto detect IDE devices. The IDE devices are auto detected by default.

Primary IDE Master	Auto
Primary IDE Slave	Auto
Secondary IDE Master	Auto
Secondary IDE Slave	Auto

3. Advanced CMOS Setup

The Advanced CMOS Setup Screen is used to change the device order your system Boots from, and the amount of time before your system enters POST.

First Boot Device:

Specifies the boot order for all devices.

Second Boot Device:

Specifies the boot order for all devices.

Third Boot Device:

Specifies the boot order for all devices.

Fourth Boot Device:

Specifies the boot order for all devices.

Try Other Boot Devices:

Set this option to "Yes" to instruct AMIBIOS to attempt to boot from another drive in the system when all the specific Boot Devices above have undetected boot drive.

Post Delay Time (in seconds):

Allow you to set the amount of time. The Setup Utility prompt (F10=Setup) appears when the computer boots.

None: Post Delay Time disable (Default) 5: Post Delay 5 seconds 15: Post Delay 15 seconds 25: Post Delay 25 seconds 35: Post Delay 35 seconds

System Keyboard:

Allows you to set the System Keyboard detect or not when computer boots.

Absent: System Keyboard not detect (Default) Present: System Keyboard detect

APIC ACPI SCI IRQ:

Allows you to enable or disable the internal I/O APIC and Multiprocessor Tables. (Disable the APIC ACPI SCI IRQ may require the O.S. to be reinstalled)

Enable: IRQ 20-23 (Default) Disable: IRQ 09-11

Hyper-Threading Technology:

Allows you to enable or disable the Intel Hyper-Threading Technology. (This item only selectable when Intel HTT CPU is plugged –in)

Enable: Intel HTT function enable (BIOS auto detect) Disable: Intel HTT function disable (BIOS auto detect)

Internal Graphic Mode Select

Allows you to select the size of memory for the internal graphic adapter.

Disable: Internal Graphic Mode Select disable 512KB: Share 512KB 1MB: Share 1MB 8MB: Share 8MB (Default)

4. Power Management Setup

The Power Management Setup screen is used to configure power management features.

ACPI Standby State:

Allows you to set the ACPI Standby State when system into the ACPI Standby Mode.

S1/POS: Power on Suspend S3/STR: Suspend to RAM (Default)

Restore on AC/Power Loss:

Allows you to set the system status after system AC Power Loss.

Power Off: System always Power Off (Default) Power On: System always Power On Last State: Depends on system last state before AC Power Loss.

Resume on Ring:

Allows you to set the Resume On Ring from Soft Off.

Disable: Ring Resume disable (Default) Enable: Ring Resume enable

Resume on LAN:

Allows you to set the Resume On LAN from Soft Off.

Disable: LAN Resume disable Enable: LAN Resume enable (Default)

Resume On PME:

Allows you to set the Resume On PME from Soft Off.

Disable: PME Resume disable Enable: PME Resume enable (Default)

5. Peripheral Setup

The Peripheral Setup screen is used to configure the setting for peripheral devices.

OnBoard LAN:

Allows you to enable or disable OnBoard LAN.

Disable: OnBoard LAN disable Enable: OnBoard LAN enable (Default)

Onboard LAN Chip Boot Rom:

Allows you to enable or disable OnBoard LAN Chip Boot ROM.

Disable: OnBoard LAN Chip Boot ROM disable Enable: OnBoard LAN Chip Boot ROM enable (Default)

Intial Graphics Adapter Priority:

Allows you to set the initial priority of the Graphics Adapter. (SCENIC Edition X101-Mainboard GE/GV has a different option)

SCENIC Edition X101-MainboardGE AGP/Int-VGA AGP/PCI (Default) PCI/AGP PCI/Int-VGA

SCENIC Edition X101-MainboardGV Int-VGA/PCI (Default)

USB Controller:

Allows you to enable or disable the USB Controller.

Disable: USB Contoller disable Enable: USB Controller enable (Default)

USB 1.1 Device Legacy Support:

Allows you to set the USB 1.1 Device Legacy Support under DOS mode.

Disable: USB 1.1 Device Legacy Support disable No Mice: Only Mice is not supported All Device: All device support

OnBoard Serial Port:

Allows you to set the OnBoard Serial Port settings.

Auto (Default) Disable 3F8/COM1 2F8/COM2 3E8/COM3 2E8/COM4

OnBoard Parallel Port:

Allows you to set the OnBoard Parallel Port settings.

Auto (Default) Disable 378 278



6. Hardware Monitor Setup

This setup page describes the PC health status, including temperature (CPU, system), fan speed (CPU, system, chassis) and the voltage (CPU, AGP, system power).

CPU Ratio Selection:

Allows you to setup the Intel P4 and Celeron CPU ratio

CPU Warning Temperature:

System will warn when the CPU temperature reaches above 85°C/185°F

CPU Shutdown Temperature:

System will shutdown when the CPU temperature reaches above 90°C/194°F

System Warning Temperature:

System will warn when the System temperature reaches above 60°C/140°F

System Shutdown Temperature:

System will shutdown when System temperature reaches above 65°C/149°F

CPU Temperature:

Current CPU Temperature detect.

System Temperature:

Current System Temperature detect.

CPU FAN Speed:

Current CPU FAN Speed detect.

Chassis FAN Speed:

Current Chassis FAN Speed detect.

CPU VID:

Current CPU Voltage detect.

Vccp:

Current Vccp Voltage detect.

<u>+1.5V:</u>

Current ATX Power +1.5V detect.

<u>+2.5V</u>:

Current ATX Power +2.5V detect.

<u>+3.3V:</u>

Current ATX Power +3.3V detect.

+5.0V:

Current ATX Power +5.0V detect.

+12.0V:

Current ATX Power +12.0V detect.

7. Password Option

The Password Option screen allows users to setup password and execute checking function.

Change Supervisor Password

Allow you to set and change the Supervisor Password.

Password Status

This feature shows Password Status.

Password Check

Allows you to set the Password Check when Supervisor Password setup.

Setup: Password prompt appears when BIOS is executed. Always: Password verification checks every time when computer boots. (Default)

8. Load Default Settings

Load optimal default values for all the setup options.

9. Save Settings and Exit

Exit system setup after saving the changes.

10. Exit without Saving

Exit system setup without saving any changes.

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