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You can read the recommendations in the user guide, the technical guide or the installation guide for ASUS PTGD1-LA PUFFER M-UL8E. You'll find the answers to all your questions on the ASUS PTGD1-LA PUFFER M-UL8E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ASUS PTGD1-LA PUFFER M-UL8E**  
**User guide ASUS PTGD1-LA PUFFER M-UL8E**  
**Operating instructions ASUS PTGD1-LA PUFFER M-UL8E**  
**Instructions for use ASUS PTGD1-LA PUFFER M-UL8E**  
**Instruction manual ASUS PTGD1-LA PUFFER M-UL8E**

**PTGD1-LA**  
*(Puffer M-UL8E)*

**ASUS**

**Motherboard**



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**Manual abstract:**

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.. iii 1. 2. 3. 4. 5. 6. Motherboard layout ..

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... 1 Central Processing Unit (CPU) .....

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.. 2 System memory .....

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.. 5 Expansion slots .....

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... @@@@11 6.

1 6.2 Rear panel connectors ....

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. 11 Internal connectors .....

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. 13 ii PTGD1-LA specifications summary CPU Chipset LGA775 socket for the Intel® Pentium® 4 processor Northbridge: Intel® 915P Memory Controller Hub (MCH) Southbridge: Intel® ICH6 800 MHz 4 x 184-pin DDR DIMM sockets for up to 4 GB non-ECC DDR SDRAM 1 x PCI Express x16 slot for discrete graphics card 3 x PCI slots 1 x PS/2 mouse port 1 x PS/2 keyboard port 1 x Parallel port 1 x IEEE 1394a port 1 x LAN (RJ-45) port 6 x audio ports support 8-channel audio configuration 4 x USB 2.0 ports support hot-plug function 1 x S/PDIF Out port 1 x S/PDIF In port 1 x Floppy connector 1 x IDE connector 1 x 24-pin ATX power connector 1 x 4-pin ATX 12 V power connector 4 x Serial ATA connectors 1 x IEEE 1394a connector 2 x USB 2.0 connectors 1 x CPU fan connector 1 x System fan connector 2 x Internal audio connectors 1 x Front headphone connector 1 x System panel connector Southbridge supports: - 2 x Ultra DMA 66/100 hard disk drives - 4 x Serial ATA (SATA) ports with hot-swap function (continued on the next page) Front Side Bus (FSB) Memory Expansion slots Rear panel Internal connectors Storage iii PTGD1-LA specifications summary Audio Southbridge supports 8-channel audio configuration with Intel® High Definition Audio CODEC Realtek® ALC880 High Definition Audio CODEC Realtek® RTL8101L 10/100Mbps Fast Ethernet LAN controller VIA VT6307 supports two IEEE 1394a ports ASUS A8000 for CPU, system, and chassis fan control, motherboard and CPU temperature 4Mb FWH EEPROM HP BIOS with enhanced ACPI, DMI, Green, and PnP Features Plus Micro-ATX form factor: 9.6 in x 9.6 in LAN IEEE 1394 PC health monitoring BIOS features Form factor \* Specifications are subject to change without notice iv 1. Motherboard layout 24.5cm (9.6in) PS/2KBMS T: Mouse B: Keyboard 4Mbit Flash ROM CLPVD PARALLEL PORT ASUS A8000 DDR DIMMA2 (64 bit, 184-pin module) FLOPPY Bottom: T: USB1 Top: B: USB2 1394 DDR DIMMA1 (64 bit, 184-pin module) DDR DIMMB1 (64 bit, 184-pin module) DDR DIMMB2 (64 bit, 184-pin module) USB2.0 Top: T: USB3 RJ-45 B: USB4 ATX12V Top: Line In Center: Line Out Below: Mic In AUDIO SYS\_FAN Top: Subwoofer Speaker Out Center Rear Speaker Out Below Side Speaker Out PCIEX16 PCI1 RTL8101L PTGD1-LA PCI2 ALC880 FRONT\_AUDIO CD\_IN F\_LINE\_IN Intel ICH6 SATA3 ATX Power Connector CPU\_FAN Intel 915P MCH BAT\_H SATA4 SATA2 PCI3 VT6307 IEEE Controller FRONT\_1394 CLRTC SATA1 FRONT\_USB1 FRONT\_USB2 BUZZ1 FRONT\_PANEL ASUS PTGD1-LA (Puffer M-UL8E) 24.

5cm (9.6in) IDE 1 2. Central Processing Unit (CPU) The motherboard comes with a surface mount LGA775 socket designed for the Intel® Pentium® 4 processor in the 775-land package. · Your boxed Intel® Pentium® 4 LGA775 processor package should come with installation instructions for the CPU, heatsink, and the retention mechanism. @@@@ASUS will shoulder the cost of repair only if the damage is shipment/ transit-related. Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA775 socket. The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap. · · Installing the CPU To install a CPU: 1. @@@@ Under Linux, use the Hyper-Threading compiler to compile the code. @@@@ Make sure to enable the Hyper-Threading Technology item in BIOS before installing a supported operating system. For more information on Hyper-Threading Technology, visit [www.intel.com/info/hyperthreading](http://www.intel.com/info/hyperthreading). · · To use the Hyper-Threading Technology on this motherboard: 1. 2. Install an Intel® Pentium® 4 CPU that supports Hyper-Threading Technology. Power up the system and enter the BIOS Setup. Under the Advanced Menu, make sure that the item Hyper-Threading Technology is set to Enabled. The item appears only if you installed a CPU that supports Hyper-Threading Technology.

Reboot the computer. 3. 4 ASUS PTGD1-LA (Puffer M-UL8E) 3. System memory The motherboard comes with four Double Data Rate (DDR) Dual Inline Memory Module (DIMM) sockets. The following figure illustrates the location of the DDR DIMM sockets. DIMM\_A1 DIMM\_A2 DIMM\_B1 DIMM\_B2 PTGD-LA PTGD1-LA 184-pin DDR DIMM sockets Memory configurations You can install 128 MB, 256 MB, 512 MB, and 1GB DDR SDRAM DIMMs into the DIMM sockets using the memory configurations in this section. · Installing DDR DIMMs other than the recommended configurations may cause memory sizing error or system boot failure. Use any of the recommended configurations on the next page. Install only i d e n t i c a l (the same type and size) DDR DIMM pairs using the recommended configurations. Make sure that the memory frequency matches the CPU FSB (Front Side Bus).

@@ This motherboard does not support double-sided 16-bit DDR DIMMs. Do not create a three-DIMM configuration in dual-channel mode. @@@@ 2 To install a DIMM: 1. Unlock a DIMM socket by pressing the retaining clips outward. @@@@ To install and configure an expansion card: 1. 2. 3. 4. @@@@ Turn on the system and change the necessary BIOS settings, if any. Assign an IRQ to the card.

Refer to the tables below. @@@@ To erase the RTC RAM: 1. Turn OFF the computer and unplug the power cord. 2. Move the jumper cap from pins 2-3 (Normal) to pins 1-2 (Clear CMOS).

Keep the cap on pins 2-3 for about 5~10 seconds, then move thd, a black connector for an Ultra DMA 100/66 IDE slave device (optical drive/hard disk drive), and a gray connector for an Ultra DMA 100/66 IDE master device (hard disk drive). @@@@ This prevents incorrect insertion when you connect the IDE cable. @@@@ You must install a PSU with a higher power rating if you intend to install additional devices. · ATXPWR +3 Volts +12 Volts +12 Volts +5V Standby Power OK Ground +5 Volts Ground +5 Volts Ground +3 Volts +3 Volts Ground +5 Volts +5 Volts +5 Volts -5 Volts Ground Ground Ground PSON# Ground -12 Volts +3 Volts ATX12V GND +12V DC PTGD-LA GND +12V DC PTGD1-LA ATX power connectors ASUS PTGD1-LA (Puffer M-UL8E) 15 4. S e r i a l A T A c o n n e c t o r s SATA2, ( 7 - p i n S A T A 1 , SATA2, SATA3, SATA4) These connectors are for the Serial ATA signal cables for Serial ATA hard disk drives.

SATA1 SATA2 SATA3 SATA4 PTGD-LA PTGD1-LA SATA connectors Important notes on Serial ATA · · Install the Windows® 2000 Service Pack 4 or the Windows® XP Service Pack1 before using Serial ATA. When using the connectors in S t a n d a r d I D E mode, connect the primary (boot) hard disk drive to the SATA1 connector.



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16 ASUS PTGD1-LA (Puffer M-UL8E) GND RSATA\_TXP1 RSATA\_TXN1 GND RSATA\_RXP1 RSATA\_RXN1 GND 5. IEEE 1394a connector (10-1 pin FRONT\_1394) This connector is for an IEEE 1394a port. Connect the IEEE 1394a module cable to this connector, then install the module to a slot opening at the back of the system chassis. PTGD-LA +12V TPB+ GND TPA+ 1 FRONT\_1394 PTGD1-LA Front\_1394 connector GND +12V TPBGND TPA- NEVER connect a U S B c a b l e to the IEEE 1394a connector. Doing so will damage the motherboard! 6. USB connectors (10-1 pin FRONT\_USB1, FRONT\_USB2) These connectors are for USB 2.0 ports. Connect the USB/GAME module cable to any of these connectors, then install the module to a slot opening at the back of the system chassis.

@@@Connect the fan cables to the fan connectors on the motherboard, making sure that the black wire of each cable matches the ground pin of the connector. Do not forget to connect the fan cables to the fan connectors. Insufficient air flow within the system can damage the motherboard components. These are not jumpers! DO NOT place jumper caps on the fan connectors! CPU\_FAN GND +12V Rotation PWN SYS\_FAN PTGD-LA GND +12V Rotation PTGD1-LA Fan connectors 8. Internal audio connectors (4-pin CD-IN, F\_LINE\_IN) These connectors allow you to receive stereo audio input from sound sources such as a CD-ROM, TV tuner, or MPEG card. CD\_IN (Black) F\_LINE\_IN (White) Right Audio Channel Ground Ground Left Audio Channel PTGD-LA PTGD1-LA Internal audio connectors 18 ASUS PTGD1-LA (Puffer M-UL8E) Right Audio Channel Ground Ground Left Audio Channel 9. @@@Connect the chassis power LED cable to this connector. @@Hard disk drive activity This 2-pin connector is for the HDD Activity LED. Connect the HDD Activity L.



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