





## Asus CUSL-L 815 microATX User Manual

Intel 815 microatx motherboard



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CUSL-L

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Intel

815 microATX Motherboard

# USER'S MANUAL

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Intel 810e2 microatx motherboard (90 pages)

### [Motherboard Asus TUEG-VM Motherboard 815EG User Manual](#)

Asus tueg-vm intel 815eg chipset microatx motherboard user's manual (104 pages)

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## Summary of Contents for Asus CUSL-L 815 microATX

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## [Page 4: Federal Communications Commission Statement](#)

FCC & DOC COMPLIANCE Federal Communications Commission Statement This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: • This device may not cause harmful interference, and • This device must accept any interference received, including interference that may cause undesired operation.

## [Page 5: Introduction](#)

1. INTRODUCTION 1.1 How This Manual Is Organized This manual is divided into the following sections: 1. INTRODUCTION Manual information and checklist 2. FEATURES Production information and specifications 3. HARDWARE SETUP Instructions on setting up the motherboard. 1.2 Item Checklist Check that your package is complete.

## [Page 6: Features](#)

BGA) supports a 66/100/133 Front Side Bus (FSB), up to 512MB of PC100/ PC133 SDRAM, internal graphics AGP 2.0 and universal AGP slot support. • South Bridge System Chipset: The Intel I/O Controller Hub 1 (ICH1) features support for UltraDMA/66, which allows burst mode data transfer rates of up to 66MB/sec.

## [Page 7: Specifications-Optional Components](#)

2. FEATURES 2.1.2 Specifications-Optional Components The following onboard components are optional at the time of purchase: ® • Networking: Features Realtek 8139C PCI LAN Fast Ethernet controller. • Onboard Audio: Features CS4299 Codec. • Onboard USB Hub: Features AU9254. 2.1.3 Performance •...

## [Page 8: Cusl-L Motherboard Components](#)

See opposite page for locations. Location Processor Support Socket A370 for Coppermine/Celeron (PPGA) Processors ..1 Chipsets Intel 815 Solano Graphics Memory Cont.Hub (GMCH) ..2 Intel I/O Controller Hub (ICH) .....10 4Mbit Firmware Hub (FWH) ..... 7 Low Pin Count SMC 47M102 SuperMulti-I/O Chipset ..6 Main Memory 2 DIMM Sockets (maximum 512MB support) .....

## [Page 9: Component Locations](#)

2. FEATURES 2.2.1 Component Locations CUSL-L CUSL-L User's Manual...

## [Page 10: Hardware Setup](#)

3.1 CUSL-L Motherboard Layout CPU\_FAN PS/2KBMS T: Mouse B: Keyboard CPUT Top: RJ-45 T: USB1 ATX Power Connector B: USB2 COM1 PS\_FAN CHA\_FAN Intel 815E CR2032 3V Graphics & Lithium Cell CMOS Power Memory Controller Hub (GMCH) Line Multi CUSL-L Fast Line Ethernet...

## [Page 11: Layout Contents](#)

3. HARDWARE SETUP 3.2 Layout Contents Expansion Slots 1) DIMM1/2 p.14 168-Pin System Memory Support 2) CPU p.15 Central Processing Unit (CPU)6 3) PCI1/2/3 p.16 32-bit PCI Bus Expansion Slots 4) PCI EX p.16 PCI Extension Card Golden Finger 5) AGP 4X p 17 Universal Accelerated Graphics Port (AGP) Slot Connectors 1) PS2KBMS...

## [Page 12: Hardware Setup Procedure](#)

3. HARDWARE SETUP 3.3 Hardware Setup Procedure Before using your computer, you must complete the following steps: • Install Memory Modules • Install the Central Processing Unit (CPU) • Install Expansion Cards • Connect Ribbon Cables, Panel Wires, and Power Supply WARNING! Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips.

## [Page 13: System Memory \(Dimm\)](#)

3. HARDWARE SETUP 3.4 System Memory (DIMM) NOTE: No hardware or BIOS setup is required after adding or removing memory. This motherboard uses only Dual Inline Memory Modules (DIMMs). Sockets are available for 3.3Volt (power level) unbuffered Synchronous Dynamic Random Access Memory (SDRAM).

## [Page 14: Memory Installation](#)

3. HARDWARE SETUP 3.4.2 Memory Installation WARNING! Make sure that you unplug your power supply when adding or removing memory modules or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards (see 3.3 Hardware Setup Procedure for more information).

## [Page 15: Central Processing Unit \(Cpu\)](#)

CPU fan, no force is required to insert the CPU. Once completely inserted, close the socket's lever while holding down the CPU. After the CPU is in place, install an Intel recommended fan heatsink. Locate the CPU fan connector (see 3.1 Motherboard Layout or 3.7 External Connectors) and connect the CPU fan cable to it.

[Page 16](#) CPU fan, no force is required to insert the CPU. Once completely inserted, close the socket's lever while holding down the CPU. After the CPU is in place, install an Intel recommended fan heatsink. Locate the CPU fan connector (see 3.1 Motherboard Layout or 3.7 External Connectors) and connect the CPU fan cable to it.

## [Page 17: Expansion Cards](#)

3. HARDWARE SETUP 3.6 Expansion Cards WARNING! Unplug your power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards (see 3.3 Hardware Setup Procedure for more information).

## [Page 18: Accelerated Graphics Port \(Agp\) Slot](#)

3. HARDWARE SETUP 3.6.3 Universal Accelerated Graphics (AGP) 4X Port This motherboard provides an accelerated graphics port (AGP) slot to support a universal AGP 4X graphics cards with ultra-high memory bandwidth. This slot can also support an AGP Inline Memory Module (AIMM) for up to 4MB of 133MHz SDRAM display cache to work with the integrated graphics controller to deliver high quality video graphics.

## [Page 19: External Connectors](#)

3. HARDWARE SETUP 3.7 External Connectors WARNING! Some pins are used for connectors or power sources. These are clearly distinguished from jumpers in the Motherboard Layout. Placing jumper caps over these connector pins will cause damage to your motherboard. IMPORTANT: Ribbon cables should always be connected with the red stripe to Pin 1 on the connectors.

[Page 20](#) 3. HARDWARE SETUP 3) Universal Serial BUS Ports 0 & 1 (Black two 4-pin USB) Two USB ports are available for connecting USB devices. For additional USB ports, you can use the USB headers (see USB Headers later in this section) and mount new ports to the chassis.

[Page 21](#) 3. HARDWARE SETUP 5) Serial Port Connectors (Teal/Turquoise 9-pin COM1, 10-1 pin COM2) One serial port is ready for a mouse or other serial devices. A second serial port is available using a serial port bracket connected from the motherboard to an expansion slot opening.

[Page 22](#) 3. HARDWARE SETUP 7) Game/MIDI Connector (Gold 15-pin GAME\_AUDIO) You may connect game joysticks or game pads to this connector for playing games. Connect MIDI devices for playing or editing professional audio. Game/MIDI (15-pin female) 8) Audio Port Connectors (Three 1/8" GAME\_AUDIO) Speaker (orange) can be connected to headphones or preferably powered speakers.

[Page 23](#) 3. HARDWARE SETUP 10) Floppy Disk Drive Connector (34-1pin FLOPPY) This connector supports the provided floppy drive ribbon cable. After connecting the single end to the board, connect the two plugs on the other end to the floppy drives. (Pin 5 is removed to prevent inserting in the wrong orientation when using ribbon cables with pin 5 plugged).

[Page 24](#) 3. HARDWARE SETUP 12) Power Supply (PS\_FAN), CPU (CPU\_FAN), Chassis (CHA\_FAN) Fan Connectors (3 pins) These connectors support cooling fans of 350mA (4.2 Watts) or less. Orientate the fans so that the heat sink fins allow airflow to go across the onboard heat sink(s) instead of the expansion slots.

[Page 25](#) 3. HARDWARE SETUP 14) Wake-On-LAN Connector (3-pin WOL\_CON) This connector links a LAN card with a Wake-On-LAN output. The connector powers up the system when a wakeup signal is received through the LAN card. IMPORTANT: Requires an ATX power supply with at least 720mA +5 volt standby power CUSL-L WOL\_CON...

[Page 26](#) 3. HARDWARE SETUP 17) USB Headers (12-1 pin USB2) If the USB Ports on the back panels are inadequate, a USB header is available for two additional USB ports. Connect the 12-1 pin ribbon cable from the provided 2-port USB connector set to the midboard 12-1 pin USB header and mount the USB connector set to an open slot on your chassis.

[Page 27](#) 3. HARDWARE SETUP The following diagram is for items 19-25 Keyboard Lock SMI Lead Speaker Message LED Connector CUSL-L ATX Power Reset SW Switch\* IDELED Power LED CUSL-L System Panel Connectors Requires an ATX power supply. 19) System Power LED Lead (3-1 pin PLED) This 3-1 pin connector connects the system power LED, which lights when the system is powered on and blinks when it is in sleep mode.

This manual is also suitable for:

[Cusl-l](#)