

IP4BL-ME

Motherboard Layout reference

Contents

- Specification summary
- Motherboard layout
- Rear panel connectors
- Function selectors
- Status indicator
- Internal connectors

Specifications summary

CPU	LGA775 socket for Intel® Core™2 Duo / Pentium® Dual-Core / Celeron® 400 Sequence / Core™ 2 Quad Processors Compatible with Intel® 05A / 06 processors (Conroe / Kentsfield / Wolfdale / Yorkfield)
CPU Features	Supports Intel® E64MT Technology Supports Enhanced Intel SpeedStep® Technology (EIST)
Chipset	Northbridge: Intel® G31 Southbridge: Intel® ICH7
Front Side Bus	1333 / 1066 / 800 MHz
Memory	Dual channel memory architecture 4 x 240-pin DIMM sockets supports unbuffered non-ECC 4GB 800 / 667 MHz DDR2 memory modules
Expansion Slots	1 x PCI Express x16 slot 1 x PCI Express x1 slot 2 x PCI slots
Storage	Southbridge Intel® ICH7 supports: - 4 x Serial ATA 3Gb/s connectors support four Serial ATA devices
LAN	Realtek® RTL8111C PCIE LAN controller
USB	Max. 8 x USB 2.0 ports (4 ports at mid-board, 4 ports at back panel)
Audio	Azalia Realtek ALC883 6-channel CODEC 1 x Coaxial S/PDIF out port Supports Jack-Sensing, Enumeration, and Jack-Retasking Technology
Rear panel	1 x PS/2 keyboard port 1 x PS/2 mouse port 1 x Parallel port 1 x Serial port 1 x VGA port 1 x LAN (RJ-45) port 4 x USB 2.0 ports 6-channel audio
Internal connectors	2 x USB 2.0 connectors supports additional 4 USB 2.0 ports 1 x IDE connector for two devices 4 x Serial ATA connectors 1 x CPU fan connector 1 x Chassis fan connector 1 x Front panel audio connector 1 x CD audio in connector 1 x 24-pin EPS 12 V power connector 1 x 4-pin ATX 12 V power connector System panel connector

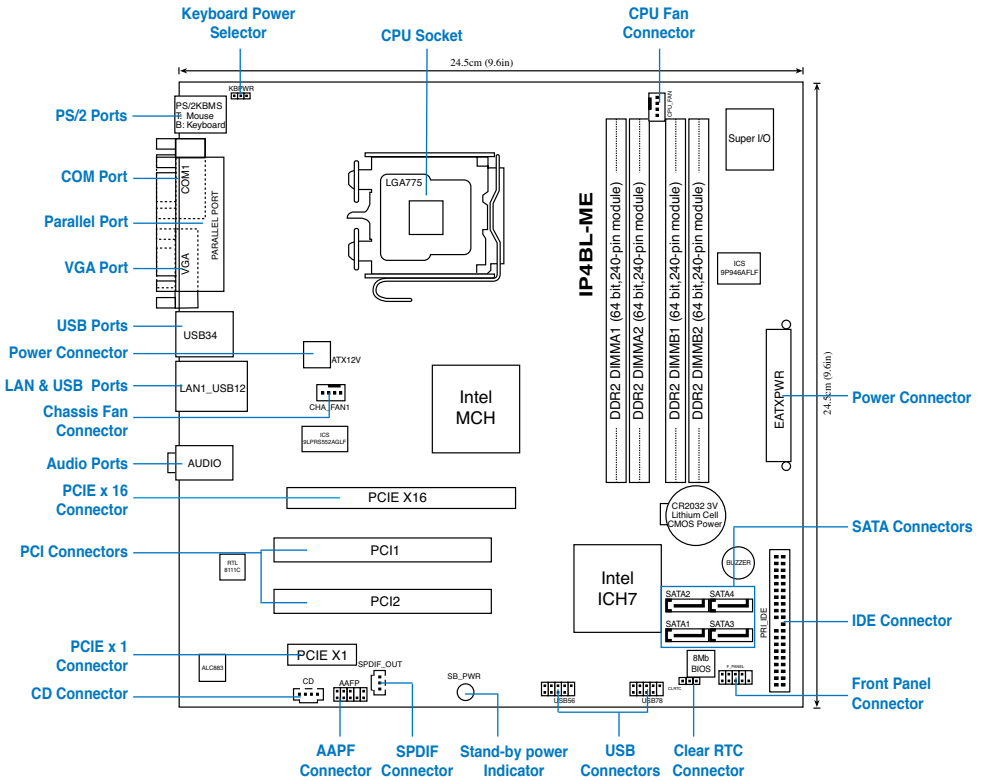
(continued on the next page)

Specifications summary

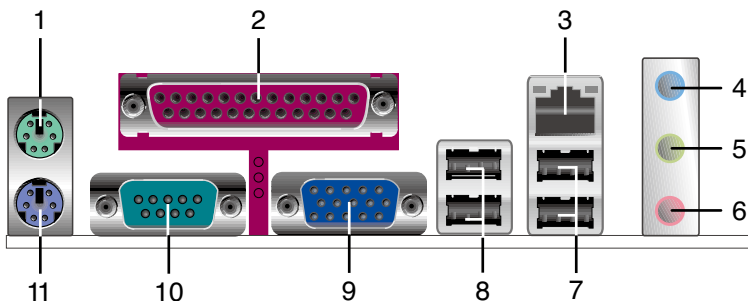
BIOS features	8 Mb Flash ROM, AMI BIOS
Power Requirement	ATX power supply (with 24-pin and 4-pin 12V plugs) ATX 12V 2.0 compliant
Accessories	1 x Serial ATA cables 1 x Serial ATA power cables 1 x UltraDMA 100 / 66 cable 1 x I/O shield
Form factor	MicroATX form factor: 9.6 in x 9.6 in (24.4 cm x 24.4 cm)

*Specifications are subject to change without notice.

Motherboard layout



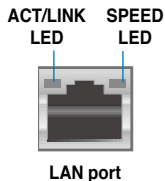
Rear panel connectors



1. **PS/2 mouse port (green).** This port is for a PS/2 mouse.
2. **Parallel port.** This 25-pin port connects a parallel printer, a scanner, or other devices.
3. **LAN (RJ-45) port.** Supported by Gigabit LAN controller, this port allows Gigabit connection to a Local Area Network (LAN) through a network hub. Refer to the table below for the LAN port LED indications.
4. **Line In port (light blue).** This port connects the tape, CD, DVD player, or other audio sources.
5. **Line Out port (lime green).** This port connects a headphone or a speaker. In 4-channel, and 6-channel configuration, the function of this port becomes Front Speaker Out.
6. **Microphone port (pink).** This port connects a microphone.
7. **USB 2.0 ports 1 and 2.** These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.
8. **USB 2.0 ports 3 and 4.** These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.
9. **VGA port.** This port is for a VGA monitor or other VGA-compatible devices.
10. **Serial port.** This 9-pin COM1 port is for pointing devices or other serial devices.
11. **PS/2 keyboard port (purple).** This port is for a PS/2 keyboard.

LAN port LED indications

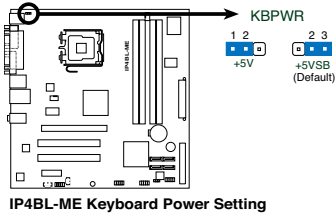
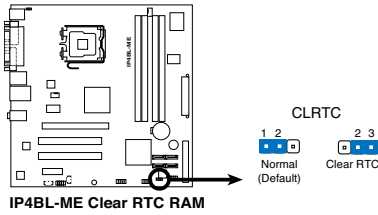
ACT/LINK LED		SPEED LED	
Status	Description	Status	Description
OFF	No link	OFF	10 Mbps connection
ORANGE	Linked	ORANGE	100 Mbps connection
BLINKING	Data activity	GREEN	1 Gbps connection



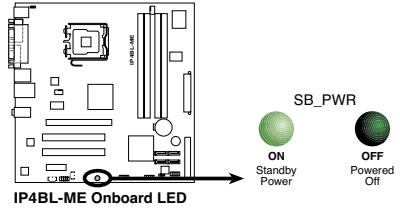
Audio 2, 4, or 6-channel configuration

Port	Headset 2-speaker	4-speaker	6-speaker
Light Blue	Line In	Rear Speaker Out	Rear Speaker Out
Lime Green	Line Out	Front Speaker Out	Front Speaker Out
Pink	Mic In	Mic In	Center/Bass

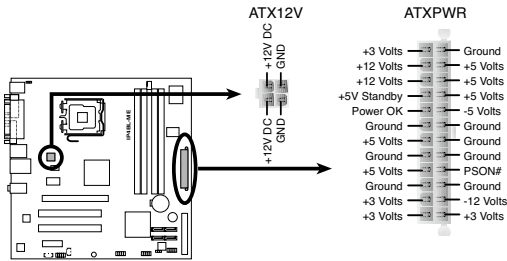
Function selectors



Status indicator



Internal connectors (cont.)



IP4BL-ME ATX power connectors

