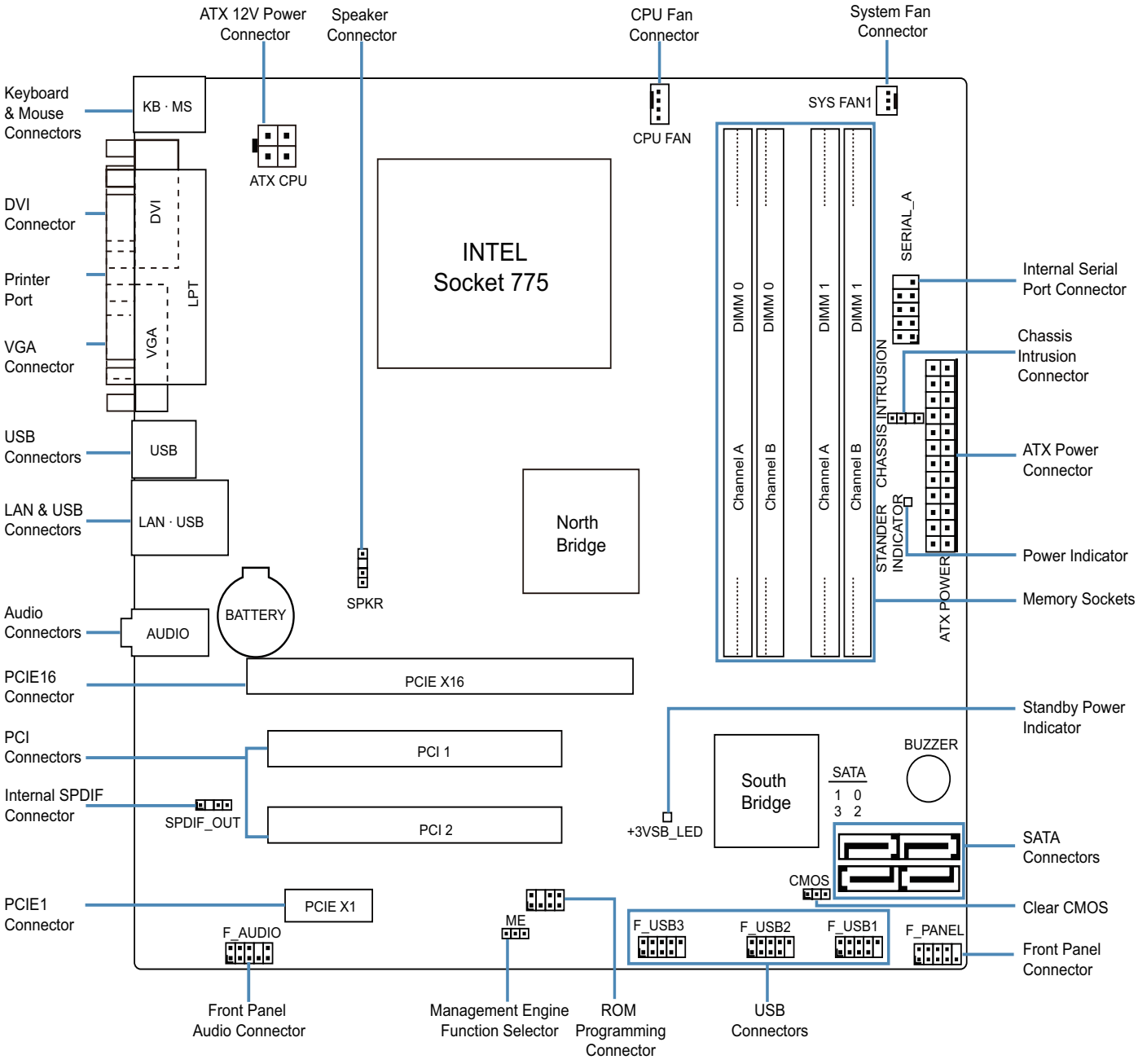
IPMEL-Q5
Motherboard layout reference

Contents

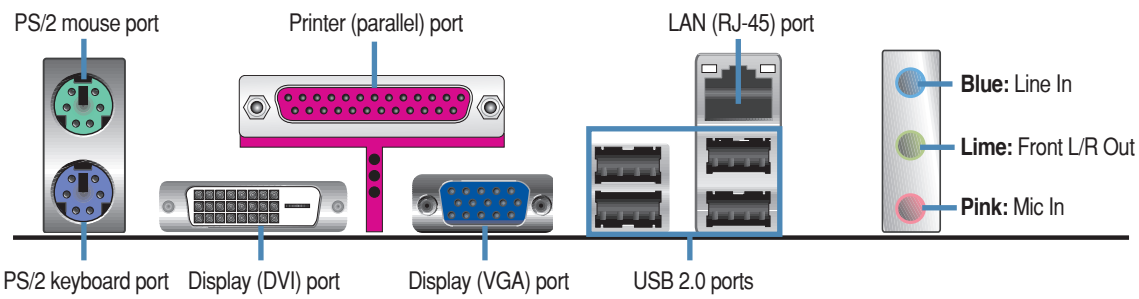
Specifications summary

CPU	**Socket:** Intel Socket 775 **Supports:** Kentsfield/Wolfdale/Yorkfield **FSB:** 800/1066/1333 MHz
Chipset	North Bridge : Q45 South Bridge: ICH10DO
Memory	DDR2-667/800 unbuffered 4 DIMM slots, max. up to 16GB
Expansion slots	1x PCI Express Graphic slot (x16) 2x PCI slots 1x PCI Express slot (x1)
Audio	Realtek ALC888S-VC2 (6-channel)
LAN	Gigabit LAN Intel 82567LM WOL (S3,S4,S5)
Graphic	Integrated Graphic in North Bridge (DVI-D/VGA)
Storage/RAID	ICH10DO built-in: 4x SATA ports
USB	10x USB 2.0 ports (6 at mid-board, 4 at rear panel)
Rear panel I/O ports	1x PS/2 Keyboard port 1x PS/2 Mouse port 1x LPT parallel port 1x DVI port 1x VGA port 2x USB ports 1x LAN port + 2x USB ports 1x Audio I/O (3 ports, 6-channel)
Internal connectors	1x CPU FAN connector 1x System FAN connector 1x Intel Front Panel connector 1x Front Panel Audio connector 3x USB 2.0 connectors, 6 ports 1x Internal Serial Port (COM) connector 1x ATX Power connector 1x ATX 12V connector 4x SATA connectors 1x SPDIF audio connector 1x System chassis intrusion connector
BIOS	SPI 32Mb (AMI)
Form factor	uATX form factor 9.6 in. x 9.6 in.

Motherboard layout



Rear panel connectors

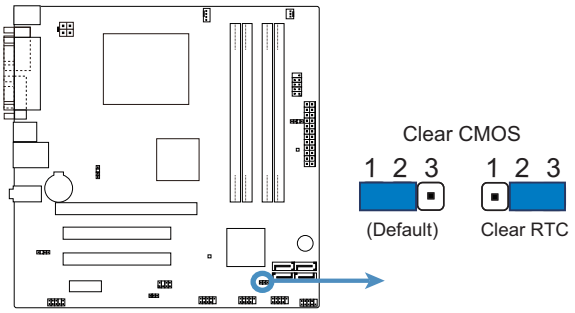


LAN port LED indications

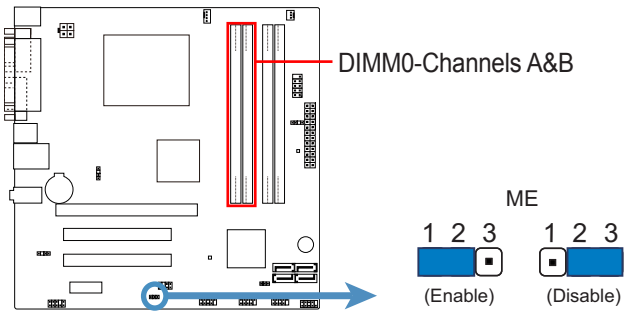
Left (ACTIVITY)	Right (SPEED)
Off : No link Orange: Activity	ON : 1Gbit OFF: 10Mbit/100Mbit

LAN port

Function Selectors



CLEAR CMOS JUMPER



MANAGEMENT ENGINE FUNCTION SELECTOR

To erase the CMOS RTC RAM user settings (and BIOS passwords.)

1. Turn OFF the computer and unplug the power cord.
2. Move the cap to **Clear** for 5 to 10 secs, then move cap back to **Default**.
3. Plug the power cord and turn ON the computer.
4. During the boot process, enter BIOS setup to re-enter user settings.

Notes for flashing BIOS:

Once the ME has been programmed it will be running at all times. The ME is capable of writing to the flash device at any time, even when the management mode is set to **none** and it may appear that no writing would occur.

It is important to note that programming the flash device while the ME is running may cause the flash device to become corrupted. The ME should be disabled before programming the full flash device.

Please follow one of following two methods to disable the ME function before flashing the BIOS:

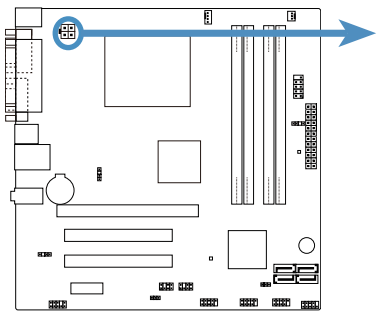
Method 1: Disable ME through the jumper

1. Turn power OFF and remove AC power plug for at least 5 secs.
2. Move **ME** jumper cap to **Disable**.
3. Reconnect the system AC power plug and turn the system ON.

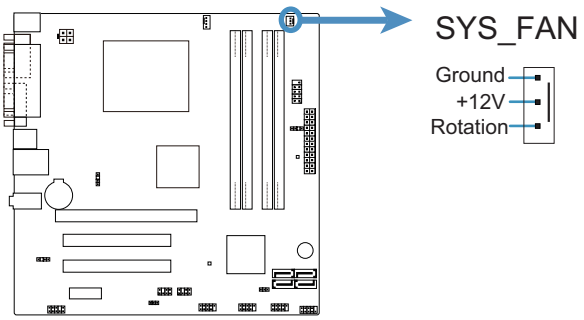
Method 2: Disable ME through memory configuration

Remove both memory modules from **Channel A - DIMM0** and **Channel B - DIMM0** as outlined above.

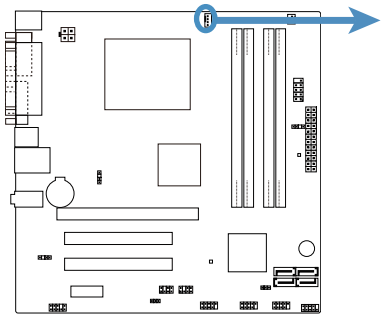
Internal connectors



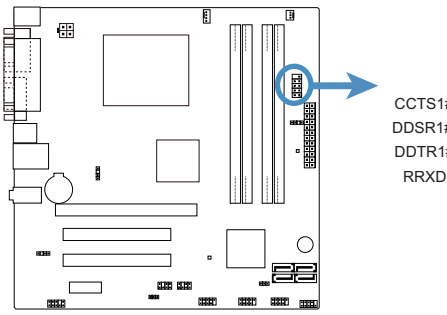
ATX 12V POWER CONNECTOR



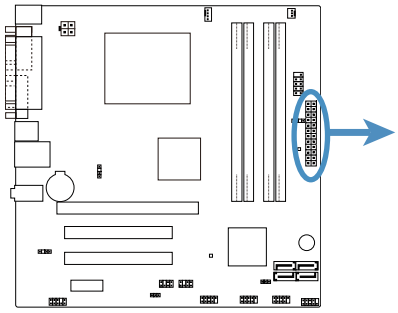
SYSTEM FAN CONNECTOR



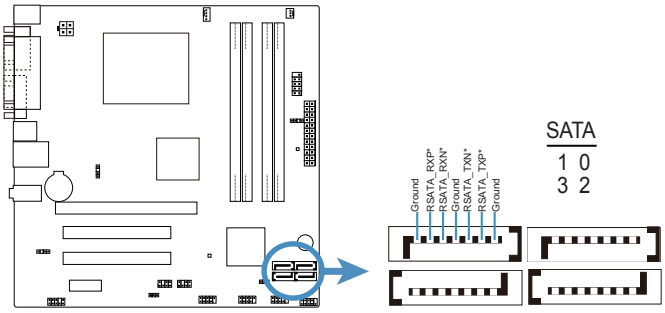
CPU FAN CONNECTOR



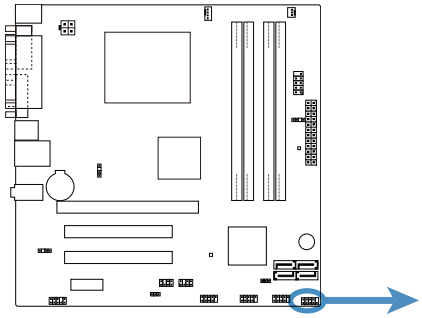
INTERNAL SERIAL PORT CONNECTOR



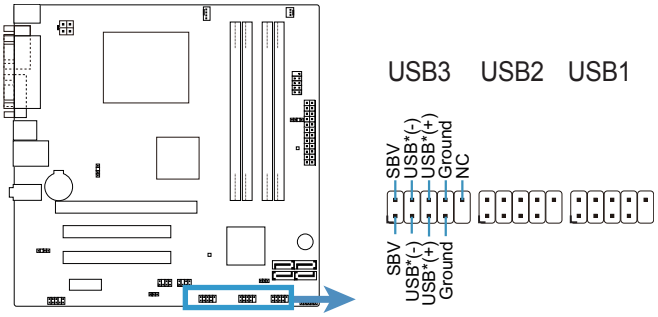
ATX POWER CONNECTOR



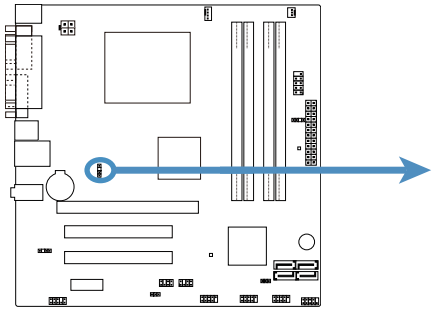
SATA CONNECTORS



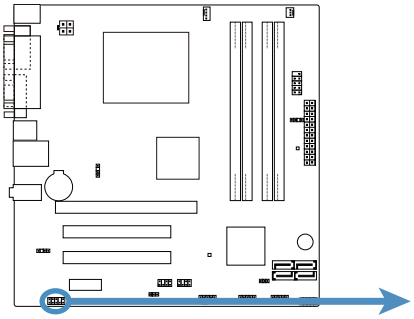
FRONT PANEL CONNECTOR



USB CONNECTORS

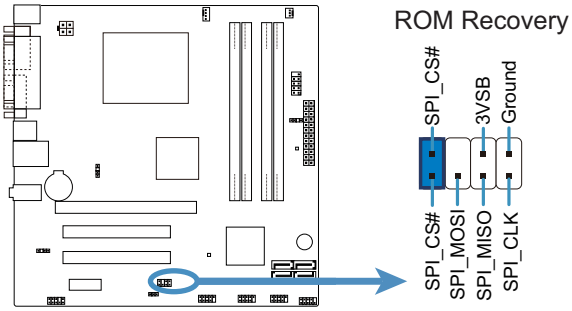


SPEAKER CONNECTOR

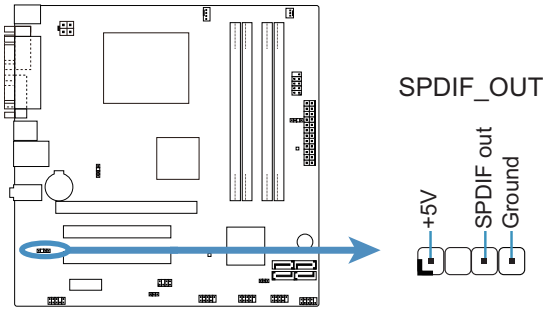


FRONT PANEL AUDIO CONNECTOR

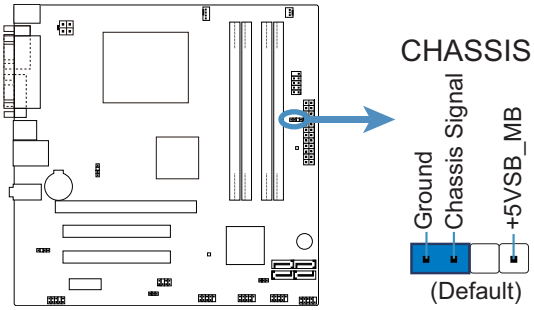
Internal connectors (cont.)



ROM RECOVER CONNECTOR



SPDIF AUDIO OUT CONNECTOR



CHASSIS INTRUSION CONNECTOR