

# IPM31

## Motherboard layout reference

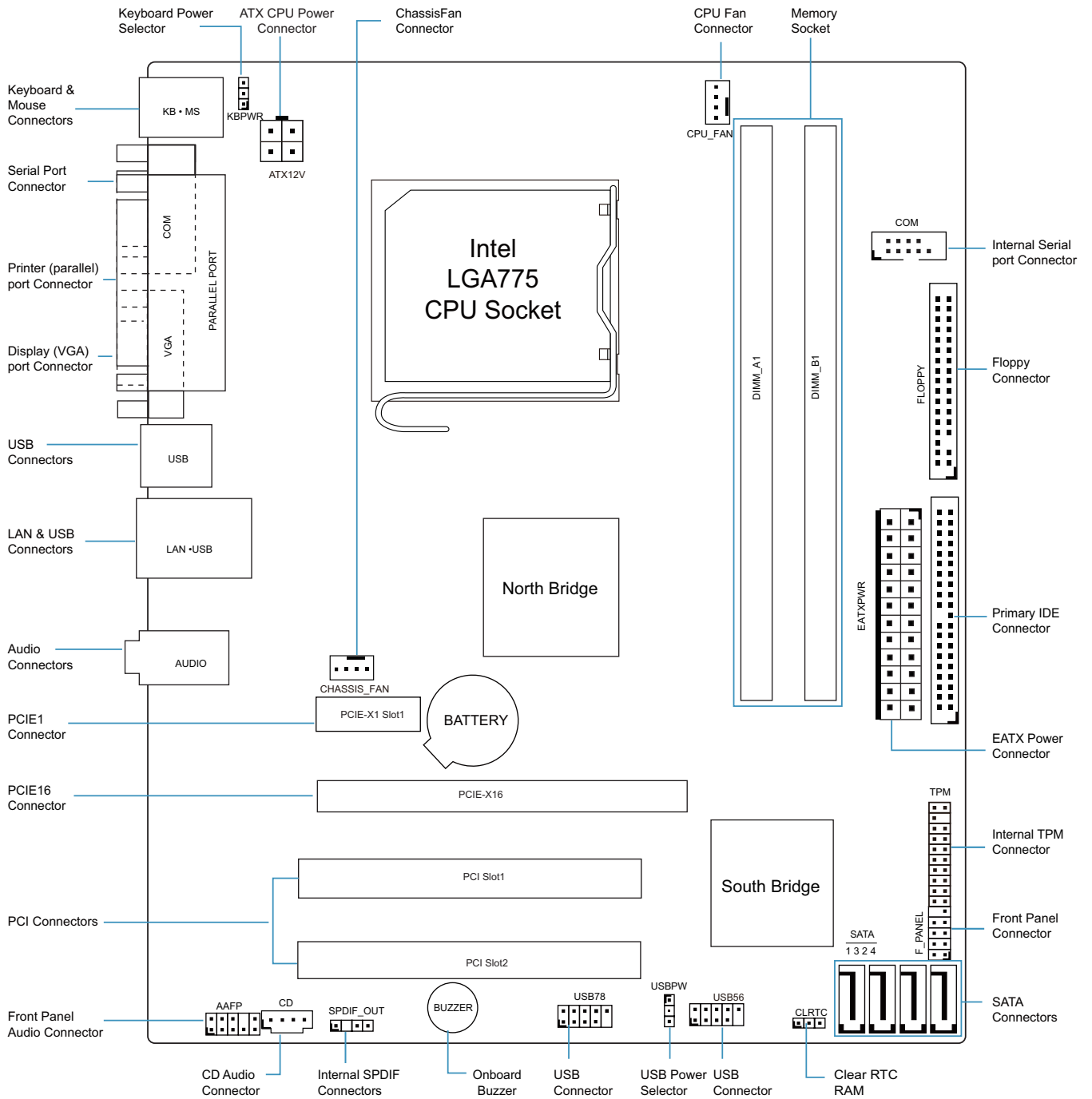
### Contents

- Specifications summary
- Motherboard layout
- Rear panel connectors
- Function selectors
- Internal connectors

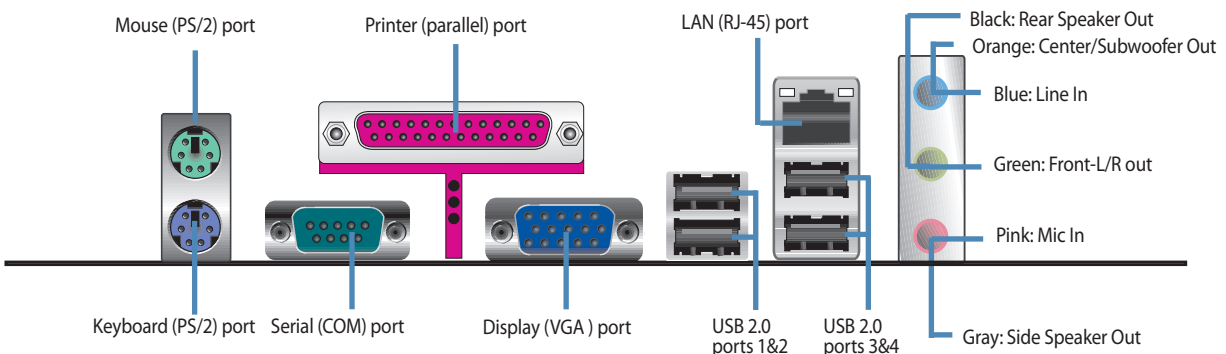
## Specifications summary

<b>CPU</b>	<b>Socket:</b> Intel Socket 775 <b>Supports:</b> Conroe L, Conroe, Wolfdale <b>Front Side Bus:</b> 800/1066/1333MHz
<b>Chipset</b>	<b>MCH (North Bridge):</b> Intel G31 <b>ICH (South Bridge):</b> Intel ICH7
<b>Graphic</b>	Integrated Graphics in North Bridge, DVI/TV-OUT
<b>Memory</b>	Dual channel, 2 slots, Non-ECC, 240-pin DDR2, Un-buffered <b>Types:</b> 667/PC2-5300, 800/PC2-6400
<b>Audio</b>	Realtek ALC662 CODEC (6 Channels)
<b>Form factor</b>	microATX: 9.6 in. x 8.0 in.
<b>Expansion slots</b>	1x PCI Express Graphic slt (x16) 1x PCI Express slot (x1) 2x PCI slot
<b>LAN</b>	Realtek RTL8111C PCIe
<b>1394</b>	(none)
<b>USB</b>	8x USB 2.0 ports (4 onboard headers, 4 on rear panel) 12Mbps/480Mbps
<b>Storage</b>	4x SATA ports (4 onboard headers) SATA300, ATA100
<b>BIOS</b>	AMI 4Mb SPI
<b>Rear panel ports</b>	1x PS2 Mouse port + 1x PS2 Keyboard port 1x Parallel (printer) port + 1x Serial (com) port + 1x VGA (display) port 2x USB ports 1x LAN port + 2x USB ports 3x Audio ports
<b>Selectors</b>	USB power, Keyboard power, clear RTC,
<b>Onboard connectors</b>	1x Front panel connector 1x Front panel audio connector 1x SPDIF output connector 1x Audio (CD) input connector 2x USB 2.0 dual port connectors 1x Serial (COM) port connector 4x SATA connectors 1x Primary IDE connector 1x Internal TPM connector
<b>Power connectors</b>	1x 24-pin EATX (+12V EPS power connector) 1x 4-pin ATX (+12V power connector) 1x CPU FAN connector 1x Chassis FAN connector

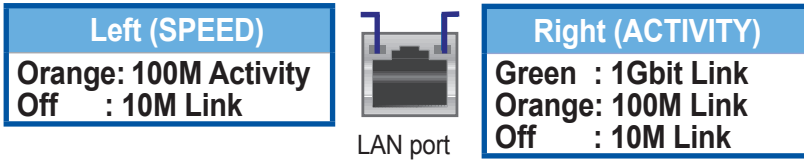
# Motherboard layout



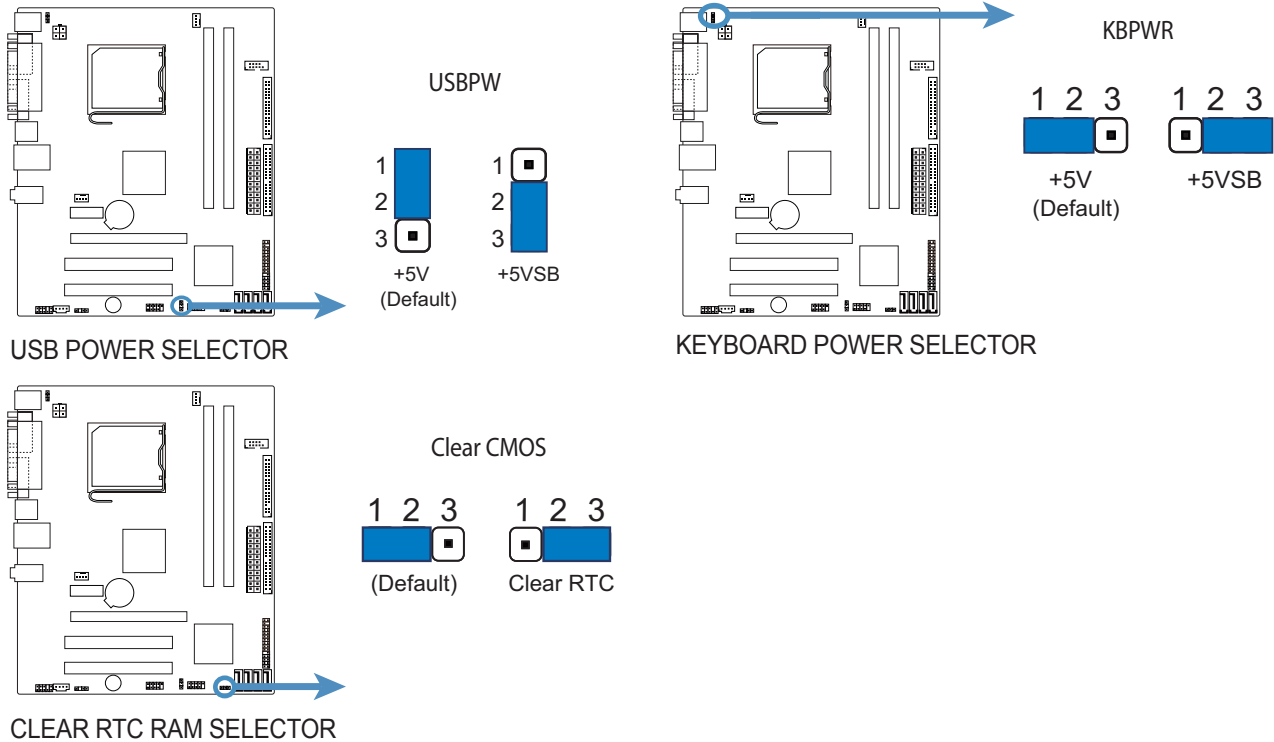
# Rear panel connectors



## LAN port LED indicators

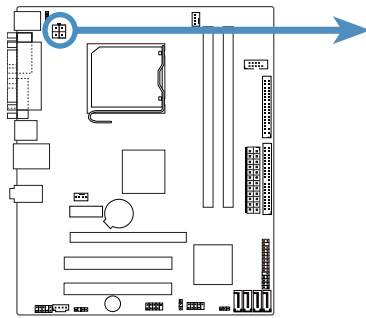


## Function Selectors

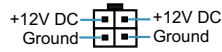


- To erase the CMOS RTC RAM user settings:
1. Turn OFF the computer and unplug the power cord.
  2. Move the cap to clear for 5 to 10 secs, then move cap back to default.
  3. Plug the power cord and turn ON the computer.
  4. During the boot process, enter BIOS setup to re-enter user settings.

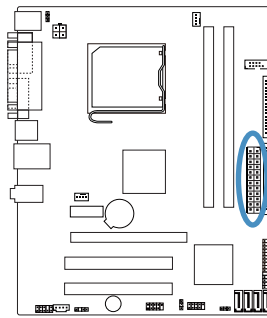
# Internal connectors



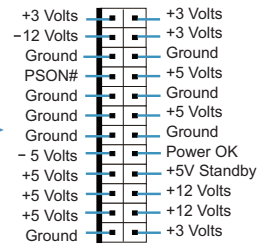
ATX12V



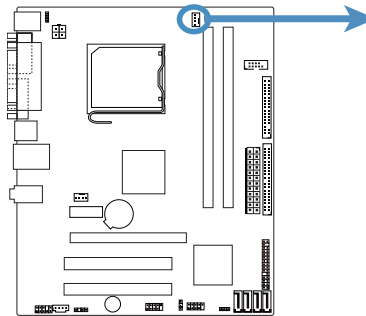
ATX 12V POWER CONNECTOR



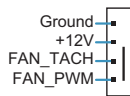
EATX PWR



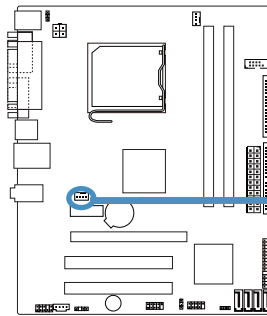
EATX POWER CONNECTOR



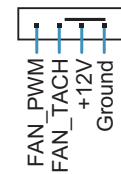
CPU\_FAN



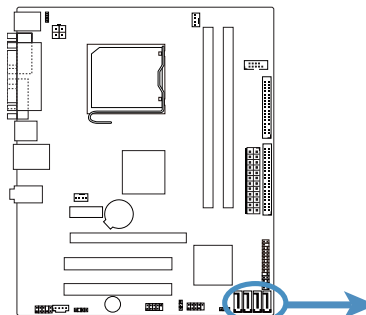
CPU FAN CONNECTOR



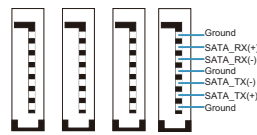
CHASSIS\_FAN



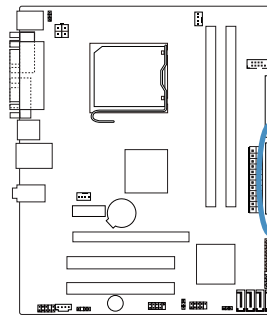
CHASSIS FAN CONNECTOR



SATA



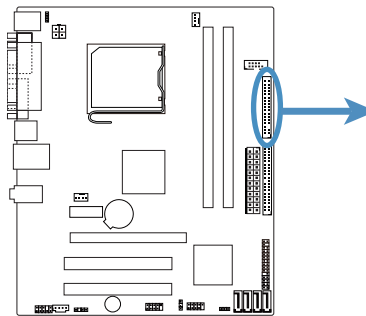
SATA CONNECTORS



PRIMARY\_IDE



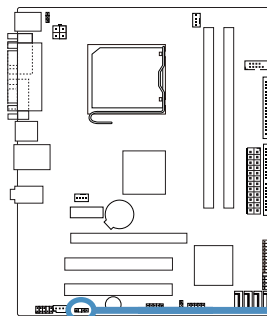
PRIMARY IDE CONNECTOR



FLOPPY



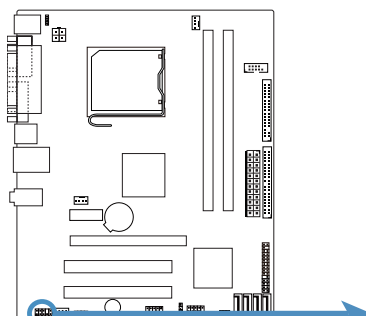
FLOPPY CONNECTOR



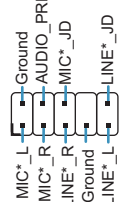
SPDIF\_OUT



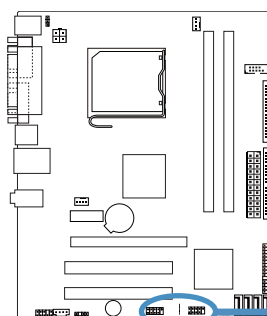
SPDIF AUDIO OUT CONNECTOR



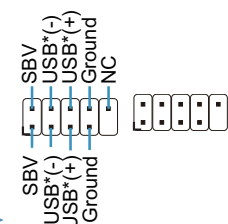
AAFP



FRONT PANEL AUDIO CONNECTOR



USB78    USB56



USB CONNECTORS

