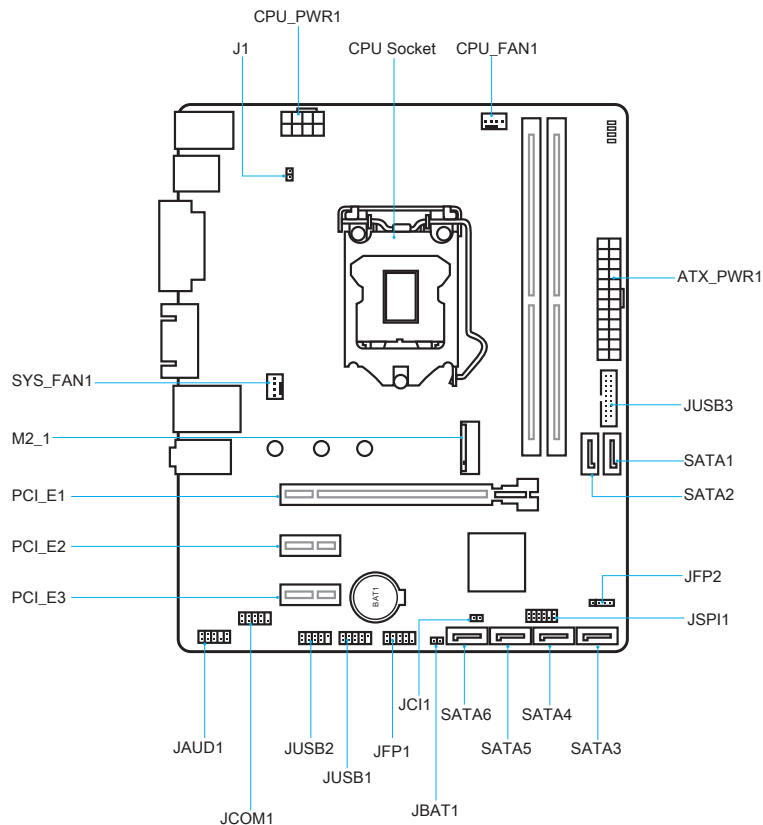


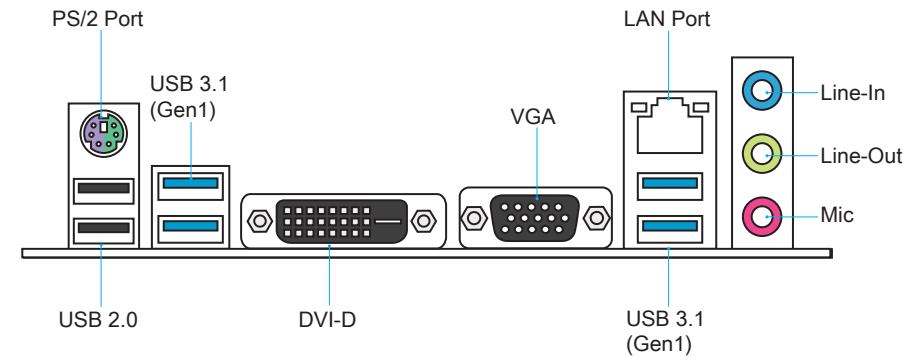
# B250M PRO-VD

(MS-7A74v1.0)  
mATX Motherboard

## Motherboard Components Overview



## Rear I/O Panel



## Motherboard Specification

### CPU Support

- Supports 7th Generation Intel® Core™ i3/ i5/i7 Processors, and Intel® Pentium® and Celeron® Processors for Socket LGA1151

### Chipset

- Intel® B250 Chipset

### Memory Support

- 2x DDR4 memory slots support up to 32GB
- Supports DDR4 2400 MHz
- Dual channel memory architecture
- Supports non-ECC, un-buffered memory
- Supports Intel® Extreme Memory Profile (XMP)

### Expansion Slots

- 1x PCIe 3.0 x16 slot
- 2x PCIe 3.0 x1 slots

### Onboard Graphics

- 1x VGA port, supports a maximum resolution

of 2048x1536@50Hz, 2048x1280@60Hz, 1920x1200@60Hz

- 1x DVI-D port, supports a maximum resolution of 1920x1200@60Hz

### Storage

- Intel® B250 Chipset
- 1x M.2 80 mm socket
- 6x SATA 6Gb/s ports
- Supports Intel® Rapid Storage Technology and Intel® Optane™ Technology

### USB

- Intel® B250 Chipset
- 6x USB 3.1 Gen1 (SuperSpeed USB) ports (4 ports on the back panel, 2 ports available through the internal USB connector)
- 6x USB 2.0 (High-speed USB) ports (2 ports on the back panel, 4 ports available through the internal USB connectors)

# Motherboard Specification

## Audio

- Realtek® ALC887-VD Codec
- 7.1-Channel High Definition Audio

## LAN

- 1x Realtek 8111H Gigabit LAN controller

## Back Panel Connectors

- 1x PS/2 keyboard/ mouse combo port
- 2x USB 2.0 ports
- 4x USB 3.1 Gen1 ports
- 1x DVI-D port
- 1x VGA port
- 1x LAN (RJ45) port
- 3x audio jacks

## Internal Connectors

- 1x 24-pin ATX main power connector
- 1x 8-pin ATX 12V power connector
- 6x SATA 6Gb/s connectors
- 2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
- 1x USB 3.1 Gen1 connector (supports additional 2 USB 3.1 Gen1 ports)
- 1x 4-pin CPU fan connector
- 1x 4-pin system fan connector
- 1x Front panel audio connector
- 2x Front panel connectors
- 1x Serial Port connector
- 1x Chassis Intrusion connector
- 1x Clear CMOS jumper

## I/O Controller

- NUVOTON 5565 Controller Chip

## Hardware Monitor

- CPU/System temperature detection
- CPU/System fan speed detection
- CPU/System fan speed control

## BIOS Features

- 1x 64 Mb flash
- UEFI AMI BIOS
- ACPI 5.0, PnP 1.0a, SM BIOS 2.8
- Multi-language

## MSI Exclusive features

- DDR4 BOOST
- TURBO M.2
- EZ DEBUG LED
- AUDIO BOOST
- VGA ARMOR
- X-Boost
- NETWORK GENIE
- M-CLOUD
- COMMAND CENTER
- LIVE UPDATE 6
- FAST BOOT
- RAMDISK
- Intel Extreme Tuning Utility

## Form Factor

- mATX Form Factor
- 22.6 cm x 18.5 cm