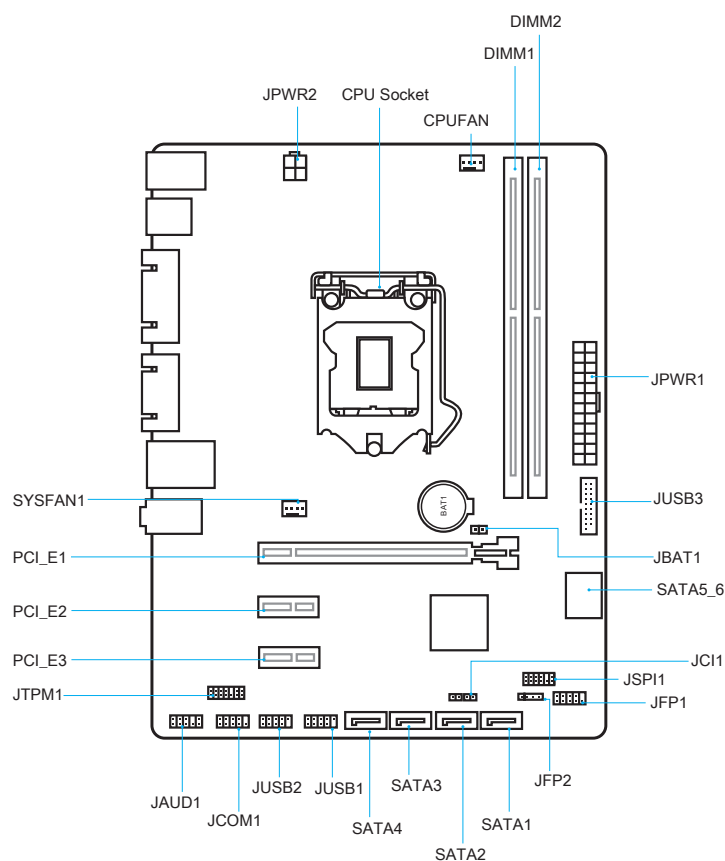


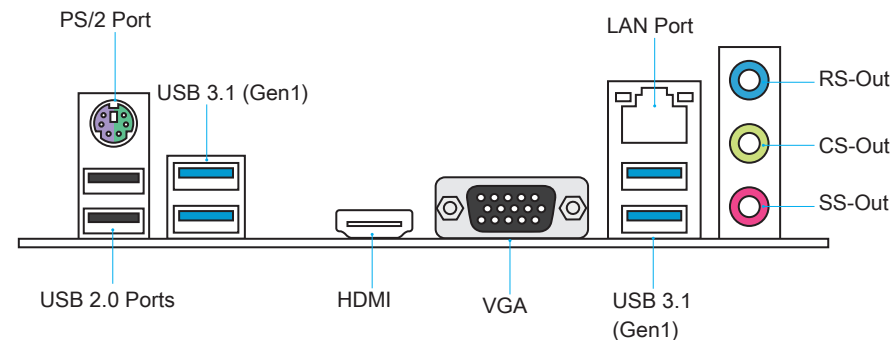
# B150M PRO-VH

(MS-7996v1.1)  
mATX Motherboard

## Motherboard Components Overview



## Rear I/O Panel



## Motherboard Specification

### CPU Support

- Supports 6th Generation Intel® Core™ Processors, and Intel® Pentium® and Celeron® Processors for Socket LGA1151

### Chipset

- Intel® B150 Express Chipset

### Memory Support

- 2x DDR4 memory slots supporting up to 32 GB
- Dual channel memory architecture
- Supports non-ECC memory, 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 HDMI port, supporting a maximum

resolution of 4096x2160@24Hz, 2560x1600@60Hz

- 1x VGA port, supporting a maximum resolution of 2048x1536, 2048x1280, 1920x1200

### Storage

- Intel B150 Express Chipset
- 6x SATA 6Gb/s ports

### USB

- Intel B150 Express Chipset
- 6x USB 3.1 Gen 1 ports (4 ports on the back panel, 2 ports available through the internal USB connectors)
- 6x USB 2.0 ports (2 ports on the back panel, 4 ports available through the internal USB connectors)

### Audio

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

# Motherboard Specification

## LAN

- 1x Realtek 8111H Gigabit LAN controller

## Back Panel Connectors

- 1x PS/2 keyboard/ mouse port
- 2x USB 2.0 ports
- 4x USB 3.1 Gen 1 ports
- 1x HDMI port
- 1x VGA Port
- 1x LAN (RJ45) port
- 3x Audio Jacks

## Internal Connectors

- 1x 24-pin ATX main power connector
- 1x 4-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 Gen 1 connector (supports additional 2 USB 3.1 Gen 1 ports)
- 1x 4-pin CPU fan connector
- 1x 4-pin system fan connector
- 1x Clear CMOS jumper
- 1x Front panel audio connector
- 2x System panel connectors
- 1x TPM module connector
- 1x Chassis Intrusion connector
- 1x Serial port connector

## I/O Controller

- NUVOTON NCT5563D 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 2.7, DMI 2.0

- Multi-language

## Special Features

- PCI Express 3.0 Support
- EZ Debug LED
- Smart Fan Control

## MSI Exclusive Features

- Click BIOS 5
- Command Center
- RAMDisk
- Super Charger
- Fast boot
- Live Update 6
- M-Cloud

## Form Factor

- mATX Form Factor
- 23.5 cm x 18.0 cm