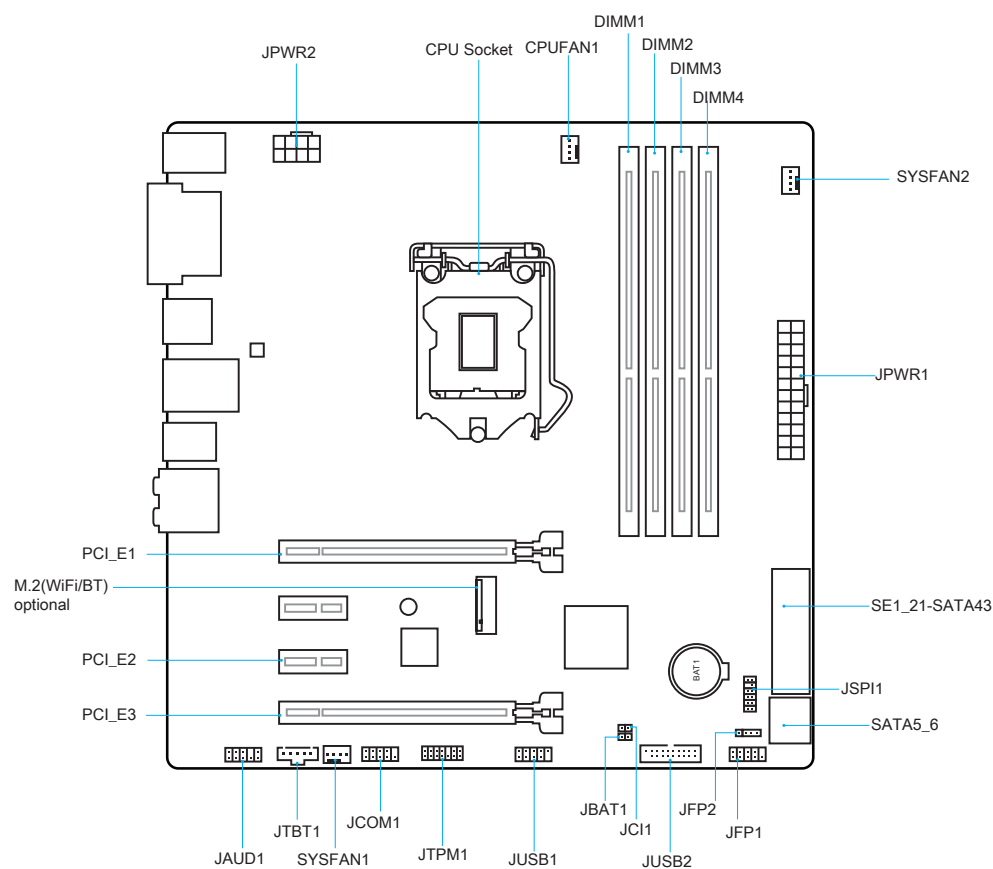


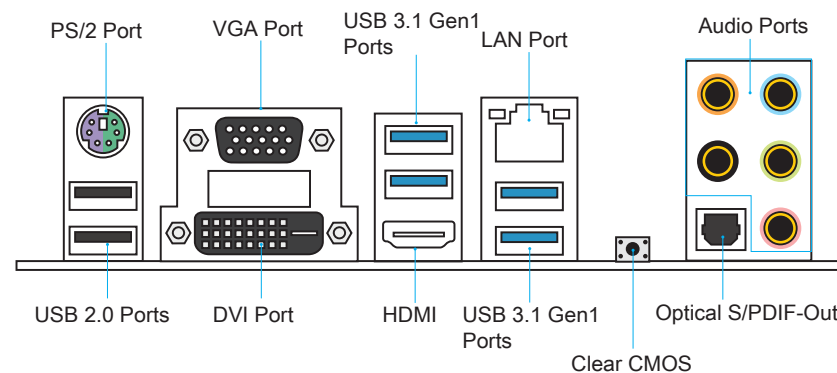
B150M MORTAR

(MS-7972v2.1)
m-ATX 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

- 64GB
 - ▶ Supports DDR4 2133 MHz
- Dual channel memory architecture
- Supports ECC, un-buffered memory
- Supports Intel® Extreme Memory Profile (XMP)

Expansion Slots

- 2XPCIE 3.0X16
- 2XPCIE 3.0X1

Onboard Graphics

- 1x HDMI port, supporting a maximum

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

- 1x VGA port, supporting a maximum resolution of 2048x1536@50Hz, 2048x1280@60Hz, 1920x1200@60Hz
- 1x DVI-D port, supporting a maximum resolution of 1920x1200 @60Hz

Multi-GPU Support

- Supports 2-Way AMD® CrossFire™ Technology¹

Storage

- Intel B150 Express Chipset
- 6x SATA 6Gb/s ports
- 1x SATA Express port (PCIe 3.0 x2)
- Supports Intel Smart Response Technology, Intel® Rapid Start Technology and Intel Smart Connect Technology²

¹ Supports Windows 7, Windows 8/ 8.1 and Windows 10.
² Supports Intel Core processors on Windows 7, Windows 8/ 8.1 and Windows 10.

Motherboard Specification

USB

- Intel B150 Express Chipset
- 6x USB 3.1 Gen1 (SuperSpeed USB) ports (4 ports on the back panel, 2 ports available through the internal USB connectors)
- 4x USB 2.0 ports (2 ports on the back panel, 4 ports available through the internal USB connectors)

Audio

- Realtek® ALC892 Codec
- 7.1-Channel High Definition Audio
- Supports S/PDIF OUTPUT

LAN

- 1x REALTEK/RTL 8111H Gigabit LAN controller

Back Panel Connectors

- 1x PS/2 mouse/ keyboard combo port
- 2x USB 2.0 ports
- 4 USB 3.1 Gen1 (SuperSpeed USB) ports
- 1x VGA port
- 1x HDMI port
- 1x DVI port
- 1x Clear CMOS button
- 1x LAN (RJ45) port
- 1x Optical S/PDIF-Out
- 5x OFC audio jacks

Internal Connectors

- 1x 24-pin ATX main power connector
- 1x 8-pin ATX 12V power connector
- 6x SATA 6Gb/s connectors
- 1x USB 2.0 connector (supports additional 2 USB 2.0 ports)
- 1x USB 3.1 Gen1 (SuperSpeed USB) connector (supports additional 2 USB 3.1 Gen1 (SuperSpeed USB) ports)
- 1x 4-pin CPU fan connector
- 2x 4-pin system fan connectors
- 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
- 1x TBT pinheader

I/O Controller

- NUVOTON NCT6793 Controller Chip

Hardware Monitor

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

BIOS Features

- 1x 128 Mb flash
- UEFI AMI BIOS
- ACPI 5.0, PnP 1.0a, SM BIOS 2.7, DMI 2.0
- Multi-language

Special Features

- Click BIOS 5
- Debug LED (for CPU, DRAM, VGA)
- Smart Fan Control
- USB 3.1 Gen1 (SuperSpeed USB)
- Intel® Small Business Advantage

Software

- Command Center
- RAMDisk
- Live Update 6
- Fast Boot
- Super Charger
- Intel Extreme Tuning Utility
- Norton Internet Security Solution
- Google Chrome
- Google Toolbar
- Google Drive
- Gaming APP
- M-Cloud
- OBS

- SteelSeriesEngine

Form Factor

- m-ATX Form Factor
- 24.38 cm x 24.38 cm