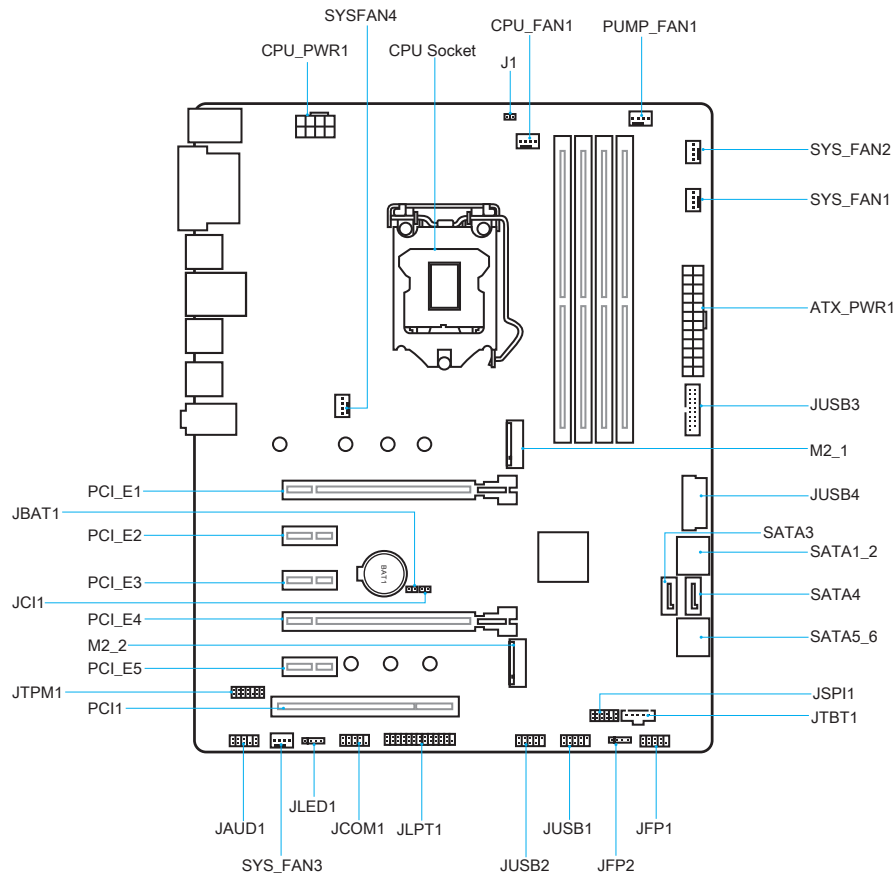


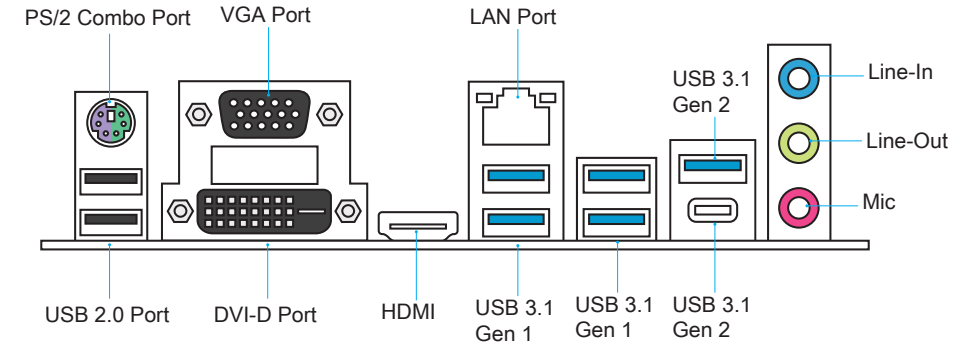
Z270 PC MATE

(MS-7A72v1.0)
ATX Motherboard

Motherboard Components Overview



Rear I/O Panel



Motherboard Specification

CPU Support

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

Chipset

- Intel® Z270 Express Chipset

Memory Support

- 64GB Supports DDR4 3600(OC)/ 3200(OC)/ 3000(OC)/ 2800(OC)/ 2600(OC)/ 2400/ 2133 MHz
- Dual channel memory architecture
- Supports ECC, un-buffered memory
- Supports Intel® Extreme Memory Profile (XMP)

Expansion Slots

- 2x PCIe 3.0 x16 slots (support x16/x4 mode)
- 3x PCIe x1 slots
- 1x PCI slot

Onboard Graphics

- 1x VGA port, supporting a maximum resolution of 2048x1536, 2048x1280, 1920x1200
- 1x HDMI port, supporting a maximum resolution of 4096x2160@24Hz, 2560x1600@60Hz
- 1x DVI-D port, supporting a maximum resolution of 1920x1200 @60Hz

Multi-GPU Support

- Supports 2-Way AMD® CrossFire™ Technology

Storage

- Intel® Z270 Express Chipset
- 6x SATA 6Gb/s ports
- 1x M.2 port, supports PCIe 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm/11cm length SSD cards
- 1x M.2 port, supports PCIe 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm length SSD cards

Motherboard Specification

- Supports RAID 0, RAID1, RAID 5 and RAID 10
- Supports Intel Smart Response Technology, Intel® Rapid Start Technology and Intel® Smart Connect Technology
- * SATA5 port will be unavailable when installing the M.2 module in M.2_2 slot.

USB

- Intel® Z270 Express Chipset
 - ▶ 8 USB 3.1 Gen1 (SuperSpeed USB) (4 ports on the back panel, 4 ports available through the internal USB connector)
 - ▶ 6 USB 2.0 ports (2 ports on the back panel, 4 ports available through the internal USB connectors)
- ASMedia® ASM2142 Chipset
 - ▶ 2x USB 3.1 Gen2 (SuperSpeed USB 10 Gbps) ports (Type A + Type C)

Audio

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

LAN

- 1x Intel I219-V Gigabit LAN controller

Back Panel Connectors

- 1x PS/2 keyboard/ mouse combo port
- 2x USB 2.0 ports
- 4x USB 3.1 Gen1 (SuperSpeed USB) ports
- 2x USB 3.1 Gen2 (SuperSpeed USB 10 Gbps) ports
- 1x VGA port
- 1x HDMI™ port
- 1x LAN (RJ45) port
- 1x DVI-D
- 3x OFC 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)
- 2x USB 3.1 Gen1 (supports additional 4 USB 3.1 Gen1 ports) connectors
- 1x 4-pin CPU fan connector
- 1x 4-pin PUMP FAN Connector
- 4 x 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 RGB LED Pin Header
- 1x Series port connector
- 1x Parallel port connector
- 1x thunderbolt (x4) connector

I/O Controller

- NUVOTON NCT6795D 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 2.8
- Multi-language

Special Features

- DDR4 Boost Support
- PCI Express 3.0 Support
- USB 3.1 Gen2 (Super Speed USB 10 Gbps) Ready
- M.2 Ready
- AMD CrossFire
- EZ Debug LED

- Smart Fan Control
- RGB LED Pin Header
- Support Intel Optane Technology

MSI Exclusive features

- COMMAND CENTER
- LIVE UPDATE 6
- FAST BOOT
- SUPER CHARGER
- RAMDISK
- Mystic Light
- Network Manager (Powered By cFosSpeed)
- Intel® Extreme Tuning Utility
- Norton™ Internet Security Solution
- Google Chrome™ ,Google Toolbar, Google Drive

Form Factor

- ATX Form Factor
- 30.4 cm x 24.3 cm