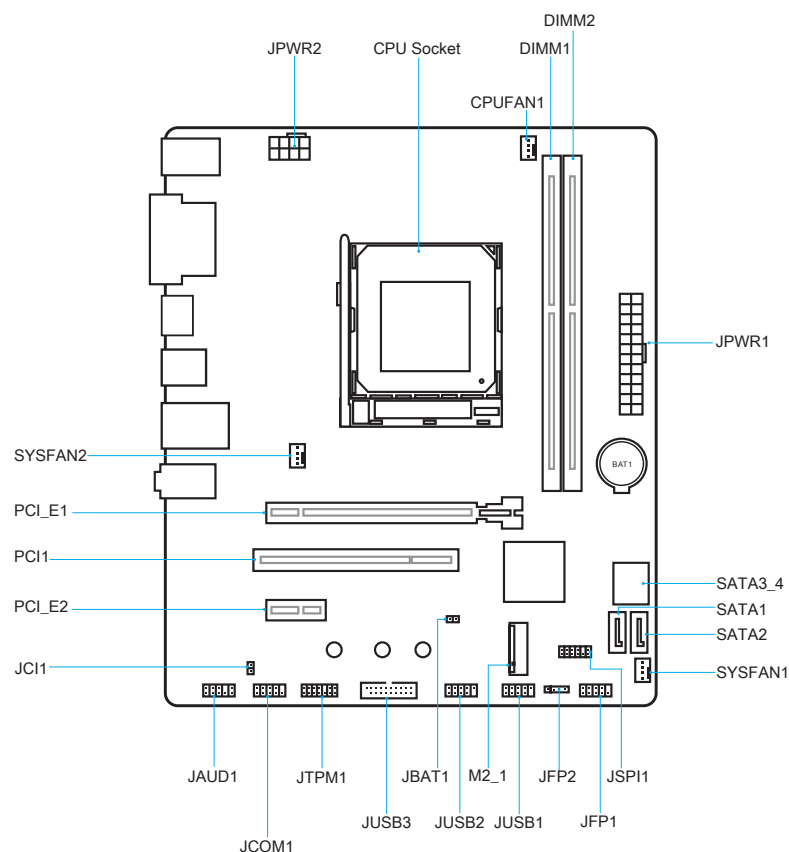


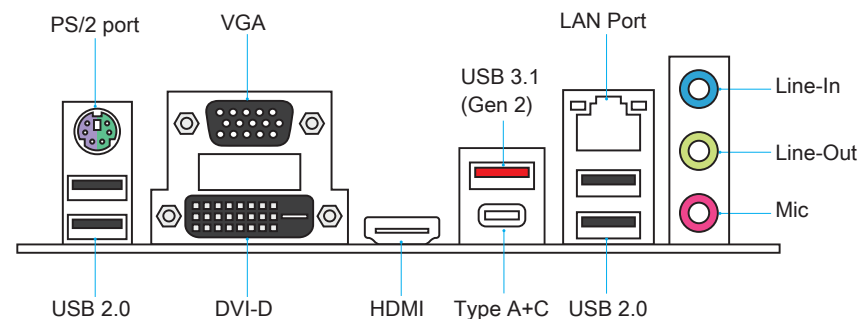
A68HM GAMING

(MS-7A83v1.0)
m-ATX Motherboard

Motherboard Components Overview



Rear I/O Panel



Motherboard Specification

CPU Support

- Supports FM2+ Socket for AMD® A- series/ Athlon™ Series Processor

Chipset

- AMD® A68H chipset

Memory Support

- 2 DIMMs support for DDR3-2133(O.C)/ 1866/1600/1333 MHz up to 32GB max
- Supports dual channel mode

Expansion Slots

- 1x PCIe 3.0 x16 slot (support x16 mode)
- 1x PCIe 2.0 x1 slot
- 1x PCI slot

Onboard Graphics

- 1x VGA port, supporting a maximum resolution of 1920x1200 @ 60Hz, 24bpp
- 1x DVI-D port, supporting a maximum resolution of 2560x1600@60Hz

- 1x HDMI port, supporting a maximum resolution of 4096x2160@24Hz, 36bpp*/ 3840x2160@30Hz, 36bpp*/ 1920x1200@120Hz, 36bpp and 1920x1200@60Hz, 36bpp
- * Only support when using an FM2+ APU

Storage

- AMD® A68H Chipset
- 4x SATA 6Gb/s ports
- 1x M.2(PCIE Gen2x4 and SATA Gen3x1)

USB

- AMD® A68H Chipset
- * 2x USB 3.1 Gen1 Ports (2 ports available through the internal USB connectors)
- * 8x USB 2.0 ports (4 ports on the back panel, 4 ports available through the internal USB connectors)
- Asmedia1143 Chip
- * 2x USB 3.1 Gen2 Ports (2 ports on the back panel, Type A+C)

Motherboard Specification

Audio

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

LAN

- 1x REALTEK/RTL 8111H Gigabit LAN controller

Back Panel Connectors

- 1x PS/2 keyboard/ mouse port
- 4x USB 2.0 ports
- 2x USB 3.1 Gen2 (10GT/s) Ports (One Type C)
- 1x HDMI port
- 1x DVI-D port
- 1x D-Sub port
- 1x LAN (RJ45) port
- 3x audio jacks

Internal Connectors

- 1x 24-pin ATX main power connector
- 1x 8-pin ATX 12V power connector
- 4x 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 (5GT/s) 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

I/O Controller

- FINTEK/F71878AD 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

Special Features

- Debug LED(for CPU,DRAM,VGA,BOOT)
- Smart Fan Control
- Audio line light and 4Corner LED
- VGA Steel Armor

MSI Exclusive features

- Click BIOS 4
- Military Class 4
- Command Center
- Live Update 6
- Gaming APP
- Gaming LAN Manager (Powered By cFosSpeed)
- OBS
- Super Charger
- Fast Boot
- USB Speed Up
- SteelSeriesEngine 3
- Dragon eye
- WTFast

Form Factor

- m-ATX Form Factor
- 24.4cm x 20.5cm