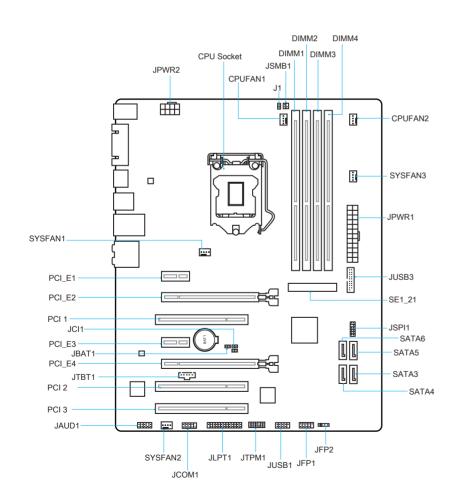


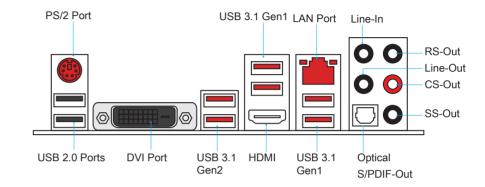
H170A GAMING PRO

(MS-7978v1.1)
ATX Motherboard

Motherboard Components Overview



Rear I/O Panel



Motherboard Specification

CPU Support

 Supports 6th Gen Intel® Core™ i3/i5/ i7 processors, and Intel® Pentium® and Celeron® processors for Socket LGA1151

Chipset

Intel® H170 Express Chipset

Memory Support

- 4x DDR3 memory slots supporting up to 64GB
- ► Supports DDR4 2133 MHz
- Dual channel memory architecture
- Supports ECC memory, un-buffered memory
- Supports Intel® Extreme Memory Profile (XMP)

Expansion Slots

- 2x PCle 3.0 x16 slots (support x16, x4/x4 modes)
- 2x PCle 3.0 x1 slots
- 3 PCI Slot

Onboard Graphics

- 1x HDMI port, supporting a maximum resolution of 4096x2160@24Hz, 2560x1600@60Hz
- 1xDVI 1920x1200@60Hz

Multi-GPU Support

 Supports 2-Way AMD® CrossFire™ Technologv¹

Storage

- Intel H170 Express Chipset
- 6x SATA 6Gb/s ports (2ports reserve for SATA Express)
- 1x SATA Express port (PCle 3.0 x2)2
- Supports RAID 0, RAID1, RAID 5 and RAID 10
- Supports Intel Smart Response Technology, Intel® Rapid Start Technology and Intel Smart Connect Technology³
- Supports Windows 7 and Windows 8/8.1
- SATA Express port is backward compatible with SATA.
- 3 Supports Intel Core processors on Windows 7 and Windows 8/ 8.1.

Motherboard Specification

USB

- Intel H170 Express Chipset
- 6x USB 3.1 Gen1 (5GT/s) ports available through the internal USB connectors (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, 2 ports available through the internal USB connectors)
- ASMedia ASM1142AE Chipset
- 2x USB 3.1 Gen 2 (10GT/s) ports

Audio

- Realtek® ALC1150 Codec
- 7.1-Channel High Definition Audio
- Supports S/PDIF output

LAN

• 1x Intel I219-V Gigabit LAN controller

Back Panel Connectors

- 1x PS/2 keyboard/ mouse port
- 2x USB 2.0 ports
- 4x USB 3.1 Gen1 (5GT/s) ports
- 2x USB 3.1 Gen 2 (10GT/s) ports
- 1x Optical S/PDIF OUT connector+5 OFC audio iack
- 1x HDMI port
- 1x DVI Port
- 1x LAN (RJ45) port

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)
- 2 USB 3.1 Gen1 (5GT/s) ports
- 2x 4-pin CPU fan connectors
- 3x 4-pin system fan connectors
- 1x Clear CMOS jumper
- 1x Front panel audio connector

- 1x System panel connectors
- 1x TPM module connector
- 1x Chassis Intrusion connector
- 1x Thounld bolt connector

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

- DDR4 Boost Support
- PCI Express 3.0 Support
- USB 3.1 Gen2 (10 Gb/s) Ready
- SATA Express Support
- NVMe / AHCI Driver Support
- Debug LED
- RGB I FD
- Smart Fan Control
- SBA
- OBS

Enthusiast GAMING features

- Audio Boost 3
- GAMING APP
- Optimized Thermal Design
- Gaming LAN Manager (Powered By cFosSpeed)

MSI Exclusive features

- Click BIOS 5
- Military Class 5

- Command Center
- RAM Disk
- Live Update 6
- M-Cloud
- ECO Center
- USB Audio Power
- Super Charger
- Fast Boot

Form Factor

- ATX Form Factor
- 30.4 cm x 24.4 cm