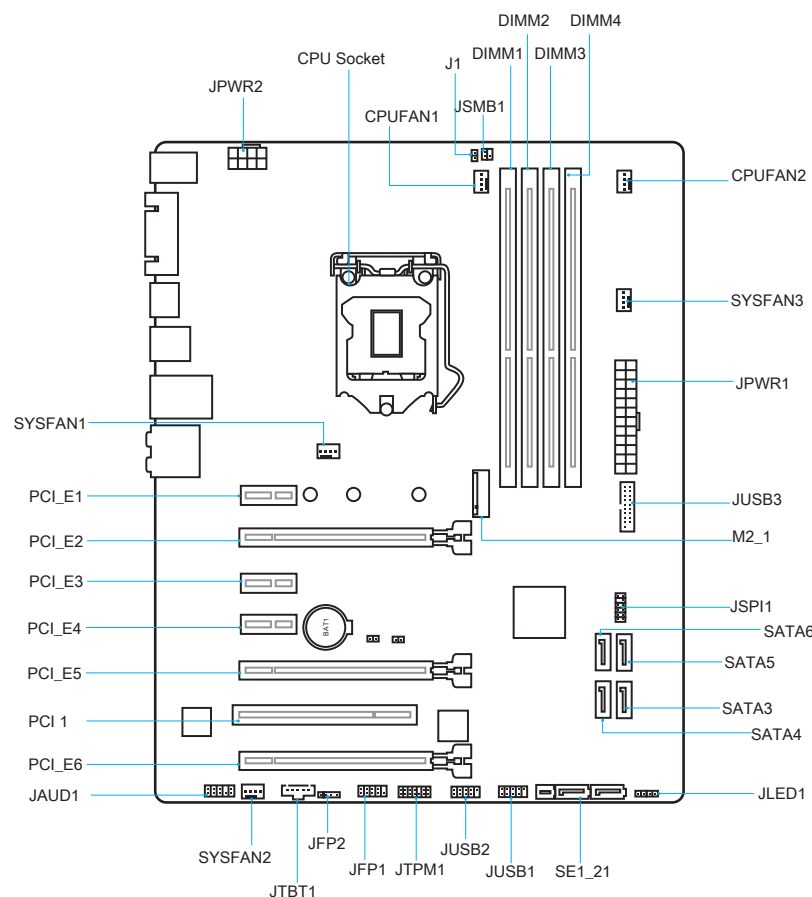


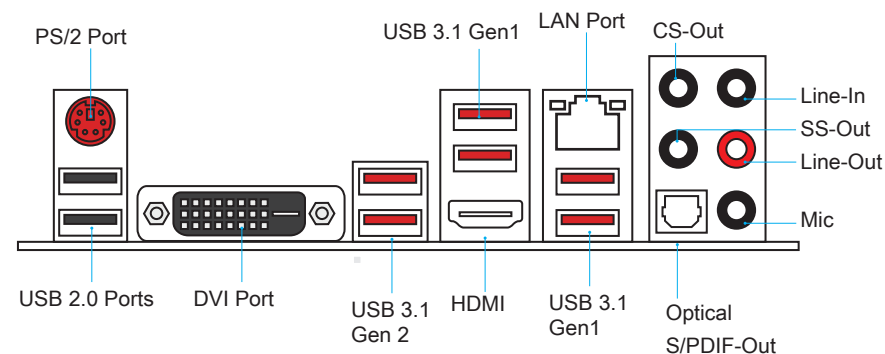
Z170A GAMING PRO

(MS-7984v1.1)
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® Z170 Express Chipset

Memory Support

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

Expansion Slots

- 3x PCIe 3.0 x16 slots (support x16/x0/x4, x8/x8/x4 modes)
- 3x PCIe x1 slots

Onboard Graphics

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

Multi-GPU Support

- supports 3-Way AMD® CrossFire™ Technology*
- Supports 2-Way NVIDIA® SLI™ Technology
- * Supports Windows® 7 and Windows® 8/ 8.1

Storage

- Intel® Z170 Express Chipset
- 4x SATA 6Gb/s ports
- 1x M.2 ports, supports PCIe 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm length SSD cards
- 1x SATAe ports (PCIe3.0x2)
- Supports RAID 0, RAID1, RAID 5 and RAID 10
- Supports Intel® Smart Response Technology, Intel® Rapid Start Technology

Motherboard Specification

and Intel® Smart Connect Technology***

* M.2, SATA and SATAe ports maximum support 1x M.2_PCIe + 2x SATAs or 1x M.2_SATA + 2x SATAs. Please refer to M.2 slots with examples of various combination possibilities

** SATAe port is backward compatible with SATA.

*** Supports Intel® Core processors on Windows® 7 and Windows® 8/ 8.1.

USB

- Intel® Z170 Express Chipset
 - ▶ 6x USB 3.1 Gen1 (SuperSpeed USB) (4 ports on the back panel, 2 ports available through the internal USB connector)
- ASMedia® ASM1142 Chipset
 - ▶ 2x USB 3.1 Gen2 (SuperSpeed USB 10 Gbps) 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 (SuperSpeed USB) ports
- 2x USB 3.1 Gen2(SuperSpeed USB 10 Gbps) ports
- 1x HDMI™ port
- 1x LAN (RJ45) port
- 1x DVI
- 1x Optical S/PDIF OUT connector
- 5x OFC 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 (SuperSpeed USB) connector
- 2x 4-pin CPU fan connectors
- 3x 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

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 (SuperSpeed USB 10 Gbps) Ready
- M.2 Ready
- SATA Express Support

Enthusiast GAMING features

- Audio Boost 3
- Game Boost
- GAMING LAN
- GAMING APP
- Optimized Thermal Design

MSI Exclusive features

- Click BIOS 5

- Military Class 5
- Command Center
- RAM Disk
- Live Update 6
- M-Cloud

Form Factor

- ATX Form Factor
- 12 in. x 9.6 in. (30.5 cm x 24.4 cm)