

Z170 PRO GAMING - Specifications

- CPU

Intel® Socket 1151 for 6th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors

Supports Intel® 14 nm CPU

Supports Intel® Turbo Boost Technology 2.0

* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.

* Refer to www.asus.com for CPU support list

- Chipset

Intel® Z170

- Memory

4 x DIMM, Max. 64GB, DDR4

3400(O.C.)/3333(O.C.)/3200(O.C.)/3100(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666(O.C.)/2600(O.C.)/2400(O.C.)/2133 MHz Non-ECC, Un-buffered Memory

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

* Hyper DIMM support is subject to the physical characteristics of individual CPUs.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

- Graphic

Integrated Graphics Processor- Intel® HD Graphics support

Multi-VGA output support : HDMI/DVI-D/RGB/DisplayPort ports

- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz

- Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz

- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz

- Supports DisplayPort with max. resolution 4096 x 2304 @ 60 Hz

Maximum shared memory of 512 MB

Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™

- Multi-GPU Support

Supports NVIDIA® Quad-GPU SLI™ Technology

Supports AMD Quad-GPU CrossFireX™ Technology

- Expansion Slots

2 x PCIe 3.0/2.0 x16 (Single at x16, dual at x8/x8,)

1 x PCIe 3.0/2.0 x16 (max at x4 mode,)

3 x PCIe 3.0/2.0 x1

- Storage

Support Raid 0, 1, 5, 10

Intel® Rapid Storage Technology supports

1 x SATA Express port compatible with 2 x SATA 6.0 Gb/s ports

1 x M.2 Socket 3, with M Key design, type 2242/2260/2280/22110 storage devices support (Supports both SATA & PCIE SSD)*¹

4 x SATA 6Gb/s port(s)

Supports Intel® Smart Response Technology*2

- LAN

Intel® I219V, 1 x Gigabit LAN Controller(s), GameFirst technology

Anti-surge LANGuard

- Audio

SupremeFX 8-Channel High Definition Audio CODEC

- Supports : Jack-detection, Multi-streaming, Front Panel MIC Jack-retasking

- High quality 115 dB SNR stereo playback output

Audio Feature :

- SupremeFX Shielding™ Technology

- Optical S/PDIF out port(s) at back panel

- Sonic Radar II

- USB Ports

ASMedia® USB 3.1 controller :

1 x USB 3.1 port(s) (Type-A)

ASMedia® USB 3.1 controller :

1 x USB 3.1 port(s) (Type-C, Reversible)

Intel® Z170 chipset :

6 x USB 3.0/2.0 port(s) (4 at back panel, blue, 2 at mid-board)

Intel® Z170 chipset :

8 x USB 2.0/1.1 port(s) (2 at back panel, black, 6 at mid-board)

- Special Features

ASUS Dual Intelligent Processors 5-Way Optimization by Dual Intelligent Processors 5 :

- 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 3, and Turbo App

Gamer's Guardian:

- ESD Guards on LAN, Audio, KBMS and USB3.0/2.0 ports

- DRAM Overcurrent Protection

- Stainless Steel Back I/O

- Highly Durable Components

- DIGI+ VRM

ASUS TPU :

- Auto Tuning

- TurboV

- GPU Boost

ASUS EPU :

- EPU

ASUS Exclusive Features :

- AI Suite 3

- Ai Charger+

- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface

- USB 3.1 Boost
- Disk Unlocker

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution
- ASUS Fan Xpert 3

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode
- Push Notice

ASUS Q-Design :

- ASUS Q-Shield
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM

Media Streamer

RAM Cache

- Operating System Support
Windows® 10 , 64bit
Windows® 8.1 , 64bit
Windows® 7 , 32bit/64bit
- Back I/O Ports
1 x PS/2 keyboard/mouse combo port(s)
1 x DVI
1 x D-Sub
1 x DisplayPort
1 x HDMI
1 x LAN (RJ45) port(s)
1 x USB 3.1 (red)Type-A
1 x USB 3.1 Type-C
4 x USB 3.0
2 x USB 2.0
1 x Optical S/PDIF out
5 x Audio jack(s)
- Internal I/O
1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin)
3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s)
1 x SATA Express connector: gray, compatible with 2 x SATA 6.0 Gb/s ports
1 x M.2 Socket 3 with M Key design, type 2242/2260/2280/22110 storage devices support
(Supports both SATA & PCIE SSD)
1 x COM port(s) connector(s)
4 x SATA 6Gb/s connector(s)

- 1 x CPU Fan connector(s) (1 x 4 -pin)
- 1 x CPU OPT Fan connector(s) (1 x 4 -pin)
- 3 x Chassis Fan connector(s) (3 x 4 -pin)
- 1 x 24-pin EATX Power connector(s)
- 1 x 8-pin ATX 12V Power connector(s)
- 1 x Front panel audio connector(s) (AAFP)
- 1 x System panel(s)
- 1 x Thermal sensor connector(s)
- 1 x CPU OV
- 1 x Clear CMOS jumper(s)
- 1 x 5-pin EXT_FAN(Extension Fan) connector
- 1 x ROG extension (ROG_EXT) header(s)
- 1 x 14-1 pin TPM connector
- Accessories
 - User's manual
 - I/O Shield
 - 4 x SATA 6Gb/s cable(s)
 - 1 x M.2 Screw Package
 - 1 x CPU installation tool
 - 1 x Supporting DVD
 - 1 x SLI bridge(s)
 - 1 x 12 in 1 Cable Label (s)
- BIOS
 - 128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, WfM2.0, SM BIOS 3.0 ACPI 5.0, Multi-language BIOS,
 - ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information
- Manageability
 - WfM 2.0, DMI 3.0, WOL by PME, PXE
- Support Disc
 - Drivers
 - ASUS Utilities
 - ASUS EZ Update
 - Anti-virus software (OEM version)
- Form Factor
 - ATX Form Factor
 - 12 inch x 9.6 inch (30.5 cm x 24.4 cm)
- Note
 - *1:When the M.2 Socket 3 is operating in SATA mode, SATA port 1 will be disabled.
 - *2:These functions will work depending on the CPU installed.