

- CPU

Intel® Socket 1151 for 8th Generation Core™ Processors

Supports Intel® 14 nm CPU

Supports Intel® Turbo Boost Technology 2.0

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

- Chipset

Intel® Z370

- Memory

4 x DIMM, Max. 64GB, DDR4

4000(O.C.)/3866(O.C.)/3733(O.C.)/3600(O.C.)/3466(O.C.)/3400(O.C.)/3333(O.C.)/3300(O.C.)/3200(O.C.)/3000(O.C.)/2800(O.C.)/2666(O.C.)/2400(O.C.)/2133 MHz Non-ECC, Un-buffered Memory

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

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

* The maximum memory frequency supported varies by processor.

- Graphic

Integrated Graphics Processor- Intel® HD Graphics support

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

- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz

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

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

Maximum shared memory of 1024 MB

Supports up to 3 displays simultaneously

DP 1.2 Multi-Stream Transport compliant, supports DP 1.2 monitor daisy chain up to 3 displays

- Multi-GPU Support

Supports NVIDIA® 2-Way SLI™ Technology

Supports AMD 3-Way CrossFireX™ Technology

- Expansion Slots

2 x PCIe 3.0/2.0 x16 (x16, x8/x8, x8/x4+x4*, x8+x4+x4/x0**) *

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

4 x PCIe 3.0/2.0 x1

* For 2 SSD on CPU support, install a Hyper M.2 X16 card (sold separately) into the

PCIeX16_2 slot, enable this card under BIOS settings.

** For 3 SSD on CPU support, install a Hyper M.2 X16 card (sold separately) into the PCIeX16_1 slot, enable this card under BIOS settings.

- Storage

1 x M.2 Socket 3, , with M Key, type 2242/2260/2280 storage devices support (SATA mode & X4 PCIE mode)*¹

1 x M.2 Socket 3, , with M Key, type 2242/2260/2280 storage devices support (PCIE mode only)*²

6 x SATA 6Gb/s port(s), gray

Support Raid 0, 1, 5, 10

Intel® Rapid Storage Technology supports

Supports Intel® Smart Response Technology

Intel® Optane™ Memory Ready

- LAN

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

ASUS Turbo LAN Utility

ASUS LAN Guard

- Audio

Realtek® S1220A 8-Channel High Definition Audio CODEC featuring Crystal Sound 3

- Impedance sense for front and rear headphone outputs

- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers

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

- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in)

- Front panel audio connector (AAFP)

- Supports up to 32-Bit/192kHz playback *³

Audio Feature :

- DTS Connect

- DTS Headphone:X

- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference

- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals

- Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity

- Unique de-pop circuit: Reduces start-up popping noise to audio outputs

- EMI protection cover to prevent electrical noise to affect the amplifier quality

- Power pre-regulator: Reduces power input noise to ensure consistent performance

Separate layer for left and right track, ensuring both sound deliver equal quality

- USB Ports

ASMedia® USB 3.1 Gen 2 controller :

1 x USB 3.1 Gen 2 port(s) (1 at back panel, teal blue, Type-A, Support 3A power output)

ASMedia® USB 3.1 Gen 2 controller :

1 x USB 3.1 Gen 2 port(s) (1 at back panel, , USB Type-C™, Support 3A power output)

Intel® Z370 Chipset :

6 x USB 3.1 Gen 1 port(s) (2 at back panel, , 4 at mid-board)

Intel® Z370 Chipset :

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

- Special Features

OC Design - ASUS PRO Clock Technology

- Full BCLK range for extreme overclocking performance

5-Way Optimization by Dual Intelligent Processors 5

- Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ Power Control, Fan Xpert 4, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages.

ASUS 5X Protection III :

- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage

- ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges!

- ASUS Overvoltage Protection: World-class circuit-protecting power design

- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!

- ASUS DIGI+ VRM: 8 Phase digital power design

ASUS TPU :

- Auto Tuning

- GPU Boost

ASUS EPU :

- EPU

AURA :

- Aura Lighting Control

- Aura RGB Strip Headers

- Aura Lighting Effects Synchronization with compatible ASUS ROG devices

ASUS Exclusive Features :

- MemOK!

- AI Suite 3

- Ai Charger

- Turbo LAN

- Crystal Sound 3

- EZ XMP ASUS Exclusive Features

- PC Cleaner

File Transfer

- Cloud GO!

- File Transfer

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution

- ASUS Fan Xpert 4

ASUS EZ DIY :

- Precision Tweaker 2

- ASUS O.C. Tuner

- ASUS O.C. Profile

- ASUS CrashFree BIOS 3

- ASUS EZ Flash 3

- ASUS UEFI BIOS EZ Mode

- Multi-language BIOS

CPU Installation Tool

- Three-step simplicity and safety

ASUS Q-Design :

- ASUS Q-Shield

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

- ASUS Q-Slot

- ASUS Q-DIMM

- ASUS Q-Connector

Special Memory O.C. Design

Overclocking Protection :

- ASUS C.P.R.(CPU Parameter Recall)

Turbo APP

- Back I/O Ports

1 x DVI-D

1 x DisplayPort

1 x HDMI

1 x LAN (RJ45) port(s)

1 x USB 3.1 Gen 2 Type-A

1 x USB 3.1 Gen 2 USB Type-C™

2 x USB 3.1 Gen 1

2 x USB 2.0

1 x Optical S/PDIF out

5 x Audio jack(s)

- Internal I/O Ports

1 x Aura RGB Strip Header

2 x USB 3.1 Gen 1 connector(s) support(s) additional 4 USB 3.1 Gen 1 port(s) (19-pin)

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)

1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (SATA mode & X4 PCIE mode)

1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (PCIE mode only)
6 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)
2 x Chassis Fan connector(s) (2 x 4 -pin)
1 x Thunderbolt header(s)
1 x 24-pin EATX Power connector(s)
1 x 8-pin ATX 12V Power connector(s)
1 x EZ XMP switch
1 x Front panel audio connector(s) (AAFP)
1 x System panel(s) (Q-Connector) (Chassis intrusion header is inbuilt)
1 x 5-pin EXT_FAN(Extension Fan) connector
1 x MemOK! button(s)
1 x CPU OV
1 x Power-on button(s)
1 x Clear CMOS jumper(s)
1 x 14-1 pin TPM connector
1 x COM port header
1 x T_Sensor Connector
1 x AIO PUMP Header
2 x 3D Mount screw port(s)
1 x M.2 Fan Header

- Accessories

User's manual
ASUS Q-Shield
1 x ASUS Fan Holder
3 x SATA 6Gb/s cable(s)
1 x M.2 Screw Package
1 x CPU installation tool
1 x Supporting DVD
1 x SLI HB BRIDGE(2-WAY-M)
1 x Q-connector(s) (1 in 1)

- BIOS

128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 6.0, Multi-language BIOS,
ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, 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

- Operating System

Windows® 10 64-bit

- Form Factor

ATX Form Factor

12.0 inch x 9.6 inch (30.5 cm x 24.4 cm)

- Note

*1. The M.2_1 socket shares SATA_1 port when use M.2 SATA mode device. Adjust BIOS settings to use a SATA device.

*2. The M.2_2 socket shares SATA_56 ports when use M.2 PCIE mode device in X4 mode. Adjust BIOS settings to use M.2 PCIE devices in X4 mode.

*3. Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio. 32-Bit/192kHz is only available under Windows® 10.



- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.
- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- *Precise specifications and features vary by model . Please refer to the specification page
- The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.