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CPUIntel® Socket 1151 for 8th Generation Core™ 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® Z370**Memory**4 x DIMM, Max. 64GB, DDR4 4133(O.C.)/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)

* 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

Multi-VGA output support : HDMI/DisplayPort 1.2 ports *1

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

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

Maximum shared memory of 1024 MB

Multi-GPU SupportSupports NVIDIA® 2-Way SLI™ Technology

Supports AMD 3-Way CrossFireX™ Technology

Expansion Slots2 x PCIe 3.0/2.0 x16 (x16, x8/x8, or x8/x4+x4)

1 x PCIe 3.0/2.0 x16 (x4 mode, black) *2

3 x PCIe 3.0/2.0 x1

StorageIntel® Z370 Chipset :

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

1 x M.2 Socket 3, with M Key, type 2242/2260/2280/22110 storage devices support (PCIe 3.0 x 4 mode)*4

6 x SATA 6Gb/s port(s)

Support Raid 0, 1, 5, 10

Supports Intel® Smart Response Technology*5

Intel® Rapid Storage Technology supports

Intel® Optane™ Memory Ready

LANIntel® I219V

Anti-surge LANGuard

ROG GameFirst IV

Wireless Data NetworkWi-Fi 802.11 a/b/g/n/ac

Supports dual band frequency 2.4/5 GHz

Supports MU-MIMO

BluetoothBluetooth V4.2**Audio**ROG SupremeFX 8-Channel High Definition Audio CODEC S1220

- Impedance sense for front and rear headphone outputs

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

- Sonic Studio III

USB PortsASMedia® USB 3.1 Gen 2 controller :

1 x USB 3.1 Gen 2 front panel connector port(s)

ASMedia® USB 3.1 Gen 2 controller :

2 x USB 3.1 Gen 2 port(s) (2 at back panel, black+red, Type-A + USB Type-C™)

Intel® Z370 Chipset :

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

Intel® Z370 Chipset :

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

ROG Exclusive FeaturesCrossChill EK II

ROG Armor (including top cover and SECC steel backplate)

Clear CMOS button

ROG RAMCache II

ROG CPU-Z

ROG CloneDrive

Pre-mounted I/O Shield

MemOK! Button

Slow Mode

Overwolf

ReTry Button

Safe Boot Button

Start Button

Reset Button

LN2 Mode

GameFirst IV

Extreme Engine Digi+ :

- MicroFine Alloy Chokes
- NexFET™ Power Block MOSFET
- 10K Black Metallic Capacitors

KeyBot II

- X.M.P.
- ClrCMOS
- Power On

UEFI BIOS features :

- O.C. Profile
- Tweakers' Paradise
- ROG SSD Secure Erase
- Graphic Card Information Preview

ROG RAMDisk

Extreme Tweaker

USB BIOS Flashback

Special FeaturesASUS Dual Intelligent Processors 5-Way

Optimization by Dual Intelligent Processors 5 :

- 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Expert 4, and Turbo App

Gamer's Guardian:

- SafeSlot

LiveDash OLED 1.3 "

AURA :

- Aura Lighting Control
- Aura RGB Strip Headers
- Aura Lighting Effects Synchronization with compatible ASUS ROG devices
- Aura Addressable Strip Header(s)

ASUS Exclusive Features :

- MemOK!
- AI Suite 3

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS USB BIOS Flashback

ASUS Q-Design :

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

Overclocking Protection :

4 x USB 2.0
1 x Optical S/PDIF out
5 x Audio jack(s)
1 x Clear CMOS button(s)
1 x USB BIOS Flashback Button(s)
1 x ASUS 2x2 Wi-Fi 802.11 a/b/g/n/ac and Bluetooth v4.2 module

Internal I/O Ports² x Aura Addressable Strip Header(s)

2 x Aura RGB Strip Headers
1 x USB 3.1 Gen 1 connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s)
1 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s)
1 x M.2 Socket 3 with M Key, type 2242/2260/2280/22110 storage devices support (SATA mode & X4 PCIe mode)
1 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support (PCIe 3.0 x 4 mode)
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)
3 x Chassis Fan connector(s) (3 x 4 -pin)
1 x H_AMP fan connector
1 x W_PUMP+ connector (1 x 4 -pin)
1 x AIO_PUMP connector (1 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) (Q-Connector)
1 x MemOK! button(s)
1 x Slow Mode switch(es)
1 x Reset button(s)
1 x LN2 Mode jumper(s)
1 x Safe Boot button
1 x ReTry button
1 x EXT_Fan header
1 x W_IN header
1 x W_OUT header
1 x W_FLOW header
1 x Thermal sensor connector
1 x Start button
1 x USB 3.1 Gen 2 front panel connector

Accessories^{User's manual}

1 x ROG logo plate sticker
6 x SATA 6Gb/s cable(s)
1 x M.2 Screw Package
1 x CPU installation tool
1 x Supporting DVD
1 x ASUS 2T2R dual band Wi-Fi moving antennas (Wi-Fi 802.11a/b/g/n/ac compliant)
1 x SLI HB BRIDGE(2-WAY-M)
1 x ROG big sticker
1 x Q-Connector
1 x M.2 bracket
1 x Extension Cable for RGB strips (80 cm)
1 x Extension cable for Addressable LED
1 x ROG coaster(s)
1 x USB 3.1 Gen 1 Header to USB 2.0 adapter cable

BIOS¹ x 128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, 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, F3 Shortcut functions and ASUS DRAM SPD (Serial Presence Detect) memory information.

Operating System Windows® 10 64-bit

Form Factor ATX Form Factor
12 inch x 9.6 inch (30.5 cm x 24.4 cm)

*4 When the M.2_2 Socket 3 is operating in PCIe 3.0 x4 mode, SATA ports 5 and 6 will be disabled.

*5 This function will work depending on the CPU installed.

*6 Due to limitations in HDA bandwidth, 32-bit/192kHz is not supported for 8-Channel audio



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