### CPU
- **Intel**® Socket LGA1200 for 11th Gen Intel® Core™ processors & 10th Gen Intel® Core™, Pentium® Gold and Celeron® processors.
- Supports Intel® 14 nm CPU.
- Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0.

### Chipset
- **Intel® Z590 Chipset**

### Memory
- Dual Channel Memory Architecture
- Supports Intel® Extreme Memory Profile (XMP)
- 
  - 10th Gen Intel® Core™ processors support 2933/2800/2666/2400/2133 natively, others will run at the maximum transfer rate of DDR4 2666MHz.
  - 11th Gen Intel® Core™ processors support 3200/2933/2800/2666/2400/2133 natively.
- 
  - * Refer to www.asus.com for the Memory QVL (Qualified Venders Lists), and memory frequency support depends on the CPU types.

### Wireless & Bluetooth
- Bluetooth v5.2 hardware ready

### Graphics
- [ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4082]
  - Impedance sense for front and rear headphone outputs
  - Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking
  - High quality 120 dB SNR stereo playback output and 113 dB SNR recording input
  - Supports up to 32-Bit/384 kHz playback

### Back Panel I/O Ports
- 1 x Thunderbolt™ 4 USB Type-C™ port(s)
- 8 x USB 3.2 Gen 2 port(s) (8 x Type-A)
- 1 x HDMI™ port
- 1 x ASUS Wi-Fi Module
- 1 x Marvell® AQtion AQC113CS 10Gb Ethernet
- 1 x Intel® i225-V 2.5Gb Ethernet
- 5 x LED-illuminated audio jacks
- 1 x Optical SPDIF out port
- 1 x BIOS FlashBack™ button
- 1 x Clear CMOS button

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**Note:** Specifications are subject to change without notice.
Fan and Cooling related
- 1 x 4-pin CPU Fan header(s)
- 1 x 4-pin CPU OPT Fan header(s)
- 2 x 4-pin Chassis Fan header(s)
- 2 x 4-pin Radiator Fan header(s)
- 2 x W_PUMP+ header(s)
- 1 x WB_SENSOR header(s)
- 1 x 2-pin Water In header
- 1 x 2-pin Water Out header
- 1 x 3-pin Water Flow header

Power related
- 1 x 24-pin Main Power connector
- 2 x 8-pin +12V Power connector
- 1 x 6-pin PCIe Graphics Card connector

Storage related
- 3 x M.2 slots (Key M)
- 1 x DIMM.2 slot supports 2 x M.2 slots (Key M)
- 6 x SATA 6Gb/s ports

USB
- 1 x USB 3.2 Gen 2x2 connector (support(s) USB Type-C®)
- 1 x USB 3.2 Gen 2 connector (support(s) USB Type-C®)
- 2 x USB 3.2 Gen 1 header(s) supports additional 4 USB 3.2 Gen 1 ports
- 2 x USB 2.0 header(s) supports additional 4 USB 2.0 ports

Miscellaneous
- 3 x AURA Addressable Gen 2 header(s)
- 1 x AURA RGB header(s)
- 1 x BIOS Switch button
- 1 x FlexKey button
- 1 x Front Panel Audio header (AAFP)
- 1 x LN2 Mode jumper
- 8 x ProBelt Measurement Points
- 1 x ReTry button
- 2 x RSVD switch
- 1 x RSVD header
- 1 x Safe Boot button
- 1 x Slow Mode switch
- 1 x Speaker header
- 1 x Start button
- 1 x V_LATCH switch
- 1 x 10-1 pin System Panel header
- 1 x Thermal Sensor header

Internal I/O Connectors

Extreme OC Kit
- FlexKey button
- LN2 Mode
- ProBelt
- ReTry button
- Safe Boot button
- Start button
- Slow Mode

Extreme Engine Digi+
- 10K Black Metallic Capacitors
- MicroFine Alloy Choke

ASUS Q-Design
- Q-Code
- Q-Connector
- Q-DIMM
- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
- Q-Slot

ASUS Thermal Solution
- M.2 heatsink backplate
- M.2 heatsink
- VRM heatsink design

ASUS EZ DIY
- BIOS FlashBack™ button
- Clear CMOS button
- ProCool II
- Pre-mounted I/O shield
- SafeSlot

AURA Sync
- ROG AURA sync backplate
- AURA RGB header(s)
- Addressable Gen 2 RGB header(s)

Dual BIOS

OLED 2”

ASUS HYDRANODE
- 2 x Chassis fan support* (CHA_FAN1P,CHA_FAN2P)
- 2 x USB2.0 port support* (USB_EP1,USB_EP2)

* Visit ASUS Website for the latest compatibility list.
### Software Features

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<td>- RAMCache III</td>
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<td>- ROG CPU-Z</td>
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<td>- GameFirst VI</td>
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<td>- Sonic Studio III + Sonic Studio Virtual Mixer</td>
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**ASUS Exclusive Software**

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<td>- AIDA64 Extreme (1 year full version)</td>
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<td>- AURA Creator</td>
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<td>- ASUS UEFI BIOS EZ Mode</td>
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### Accessories

**Cables**

- 1 x 1-to-3 ARGB splitter cable
- 2 x 1-to-4 fan splitter cable
- 1 x RGB extension cable
- 3 x ROG weave SATA 6G cables
- 1 x 3-in-1 Thermistor cables pack

**ROG Fan Controller**

- 1 x ROG Fan Controller
- 1 x Fan EXT PWR cable
- 1 x ARGB input cable
- 1 x USB input cable
- 1 x ROG Fan Controller 3M Mounting tape

**ROG DIMM.2 with Heatsink**

- 1 x ROG DIMM.2 with heatsink
- 1 x M.2 pad for ROG DIMM.2
- 2 x M.2 screw package for ROG DIMM.2

**Miscellaneous**

- 1 x ASUS Wi-Fi moving antennas
- 1 x Q-connector
- 1 x ROG CLAVIS DAC
- 1 x ROG key chain
- 1 x ROG logo plate stickers
- 1 x ROG screwdriver
- 1 x ROG stickers
- 1 x ROG thank you card
- 1 x ROG Graphics card holder

**Installation Media**

- 1 x USB drive with utilities and drivers

**Documentation**

- 1 x User manual

### Operating System

- Windows® 10 64-bit

### Form Factor

- EATX Form Factor
- 12 inch x 10.9 inch (30.5 cm x 27.7 cm)