

Intel LGA 2066 ATX motherboard with DDR4 4133MHz, dual M.2 and M.2 heatsink, U.2, and USB 3.1 Gen 2 connectors.

- 5-Way Optimization: One-click, system-wide tuning, delivers optimized overclocking and intelligent cooling for a diverse range of workloads.
- Industry-leading cooling options: Comprehensive controls for fans and water pumps, via Fan Xpert 4 software or the acclaimed ASUS UEFI.
- Ultra-efficient VRM heatsink: Metal fin array connected to large surface area via a heatpipe tames X299 thermals to enable unthrottled performance.
- Next-gen transfer speeds: Up to 32Gbps dual M.2 and U.2, plus up to 10Gbps USB 3.1 Type-A and Type-C connections.

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CPU

Intel® Socket 2066 Core™ X-Series Processors

* The Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types

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

Chipset

Intel® X299

Memory

Intel® Core™ X-series Processors (6-core above)

8 x DIMM, Max. 128GB, DDR4 4133(O.C.)/3600(O.C.)/2666/2400/2133 MHz Non-ECC, Un-buffered Memory

Intel® Core™ X-series Processors (4-core)

4 x DIMM, Max. 64GB, DDR4 4133(O.C.)/3600(O.C.)/2666/2400/2133 MHz Non-ECC, Un-buffered Memory

Supports Intel® Extreme Memory Profile (XMP)

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

* Actual memory frequency differs from Intel CPU types and memory module. Please check Intel official site for more detail about the memory types supported by each CPU.

Multi-GPU Support Supports NVIDIA® 3-Way SLI™ Technology *
Supports AMD 3-Way CrossFireX™ Technology *

Expansion Slots

44-Lane CPU-
2 x PCIe 3.0 x16 (x16 mode)
1 x PCIe 3.0 x16 (x8 mode)
1 x PCIe 3.0 x16 (x4 mode)
1 x PCIe 3.0 x4 (x4 mode)

28-Lane CPU-
1 x PCIe 3.0 x16 (x16 mode)
1 x PCIe 3.0 x16 (x8 mode)
1 x PCIe 3.0 x16 (x4 mode)
1 x PCIe 3.0 x4 (x4 mode)

16-Lane CPU-
1 x PCIe 3.0 x16 (x8 mode)
2 x PCIe 3.0 x16 (x4 mode)
1 x PCIe 3.0 x4 (x4 mode)

Storage

Intel® X299 Chipset :
1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (PCIe 3.0 x 4 mode)*1
1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA & PCIe 3.0 x 4 mode)*2
1 x U.2 connector
6 x SATA 6Gb/s port(s)
Support Raid 0, 1, 5, 10
Intel® Rapid Storage Technology 15 support
Support Intel® Rapid Storage Technology enterprise 5.1 for X-Series(6-core and above) CPU RAID
Supports Intel® Smart Response Technology
Intel® Optane™ Memory Ready

LAN Intel® I210-AT, 2 x Gigabit LAN Controller(s)

Audio

Realtek® ALC S1220A 7.1-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 (Line-out at rear) and 113 dB (Line-in)

Audio Feature :

- DTS Connect
- DTS Headphone:X
- Audio amplifier: Provides the highest-quality sound for headphone and speakers
- Premium Japanese 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

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

Premium Japan-made audio capacitors provides warm, natural, and immersive sound with exceptional clarity and fidelity

USB Ports

Intel® X299 Chipset :
6 x USB 3.1 Gen 1 port(s) (4 at back panel, , 2 at mid-board)

Intel® X299 Chipset :
6 x USB 2.0 port(s) (4 at back panel, , 2 at mid-board)

ASMedia® USB 3.1 Gen 2 controller :

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

ASMedia® USB 3.1 Gen 2 controller :

1 x USB port(s)

Special Features

OC Design - ASUS PRO Clock II Technology

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

TPU

Fan Xpert4

- Fan Xpert 4 featuring Fan Auto Tuning function and multiple thermistors selection for optimized system cooling control

ASUS 5X Protection III :

- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage
- ASUS Overvoltage Protection: World-class circuit-protecting power design
- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!
- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
- ASUS ESD Guards - Enhanced ESD protection

ASUS EPU :

- EPU

ASUS Digital Power Design :

- Industry leading Digital 8 Phase CPU Power Design
- Industry leading Digital 2 Phase DRAM Power Design

AURA :

- Aura RGB Strip Headers
- Aura Addressable Strip Header(s)

ASUS Exclusive Features :

- AI Suite 3
- Ai Charger+
- Turbo LAN
- Crystal Sound 3

ASUS EZ DIY :

- ASUS CrashFree BIOS
- ASUS EZ Flash
- ASUS USB BIOS Flashback
- Multi-language BIOS

ASUS Q-Design :

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

M.2 and U.2 Onboard (The Latest Transfer Technology with up to 32Gb/s Data-transfer Speeds for M.2 and U.2)

Asus Control Center (ACC) IT management software supported

Back I/O Ports

2 x LAN (RJ45) port(s)

2 x USB 3.1 Gen 2 (teal blue)Type-A + USB Type-C™

4 x USB 3.1 Gen 1

4 x USB 2.0

1 x Optical S/PDIF out

1 x USB BIOS Flashback Button(s)

1 x 8-channel Audio I/O

Internal I/O Ports

1 x Aura Addressable Strip Header(s)

1 x AAFP connector

1 x Aura RGB Strip Header

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)

2 x M.2 Socket 3
1 x TPM header
6 x SATA 6Gb/s connector(s)
1 x VROC_HW_Key
2 x CPU Fan connector(s)
1 x AIO_PUMP connector
1 x Thunderbolt header(s)
1 x 24-pin EATX Power connector(s)
2 x 8-pin ATX 12V Power connector(s)
1 x 6-pin EZ_PLUG Power connector(s)
1 x EZ XMP switch
1 x Front panel connector(s)
1 x AUX panel header(s)
1 x MemOK! button(s)
1 x Thermal sensor connector(s)
1 x CPU OV
1 x Power-on button(s)
1 x Clear CMOS button(s)
1 x 5-pin EXT_FAN(Extension Fan) connector
1 x Rear fan
1 x COM port header
1 x U.2 Connector (support U.2 NVMe device)
1 x USB 3.1 Gen 2 front panel connector
1 x PANEL2
1 x PUMP Fan connector
1 x PANEL1

Accessories

User's manual
1 x Vertical M.2 bracket set
I/O Shield
1 x COM port cable(s)
6 x SATA 6Gb/s cable(s)
2 x M.2 screws
1 x Supporting DVD
1 x 3-Way SLI bridge(s)
1 x SLI bridge(s)
1 x Q-Connector
1 x 2-port USB module(s)
1 x Extension Cable for RGB strips (80 cm)

Form Factor

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

Weight

Gift Box(3-in-1)
Net Weight: 4.59 Kg
Gross Weight: 7.48 Kg

Bulk Pack(5-in-1)
Net Weight: 7.15 Kg
Gross Weight: 8.94 Kg

Note

*Actual number of Multi-graphic supported differs per Vendors' Graphic cards.
Please check with Vendor beforehand.
*1 Bandwidth is shared between M.2_2 and U.2
*2 SATA Bandwidth is shared between M.2_1 and SAT6G_1