

Intel LGA 2066 ATX motherboard with DDR4 4133MHz, dual M.2 and M.2 heatsink, U.2, USB 3.1 Gen 2 connectors, ASMB9-iKVM and ASUS Control Center.



- ASUS Control Center: A software utility that provides convenient, secure and cost-saving centralized IT management for small and medium businesses.
- ASMB9-iKVM (BMC) : supports remote BIOS updates, fans control, standalone KVM, video recording, and BSOD capture, providing around-the-clock remote monitoring and diagnostics through remote console (Web GUI & CLI)
- 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

Build in Intel® Socket 2066 Core™ X-Series Processors

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

Chipset

Build in Intel® X299

Memory

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

8 x DIMM, Max. 128GB, DDR4 4133(O.C.)/4000(O.C.)/3600(O.C.)/2666/2400 MHz Non-ECC, Un-buffered Memory

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

4 x DIMM, Max. 64GB, DDR4 4133(O.C.)/4000(O.C.)/3600(O.C.)/2666/2400 MHz Non-ECC, Un-buffered Memory

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

* Please refer to ASUS AVL for the latest update.

* 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.

Graphic

ASPEED AST2500 64MB

VGA output support : Header port

Supports NVIDIA® 3-Way SLI™ Technology *

Multi-GPU Support Supports AMD 3-Way CrossFire™ 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 (both SATA & PCIe mode)*²
1 x U.2 connector
6 x SATA 6Gb/s port(s)
Support Raid 0, 1, 5, 10
Support Intel® Rapid Storage Technology enterprise 5.1 for X-Series(6-core and above) CPU RAID
Supports Intel® Smart Response Technology
Intel® Rapid Storage Technology 15 support
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-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

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

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 :
3 x USB 3.1 Gen 2 port(s) (2 at back panel, , Type-A + USB Type-C™, 1 at mid-board)

Workstation Feature ASUS Control Center (ACC)
ASMB9-iKVM for KVM-over-Internet

Special Features

OC Design - ASUS PRO Clock II Technology

ASUS 5X Protection :

- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
- ASUS ESD Guards - Enhanced ESD protection
- ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating

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 Charger+
- Turbo LAN
- Crystal Sound 3

ASUS Quiet Thermal Solution :

- Stylish Fanless Design with M.2 Heat-sink solution

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 (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 U.2 port
- 1 x Aura RGB Strip Header
- 1 x USB 3.1 Gen 1 (up to 5Gbps) 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 (PCIe 3.0 x 4 mode)
- 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (SATA mode & X4 PCIe mode)
- 1 x TPM header
- 1 x COM port(s) connector(s)
- 6 x SATA 6Gb/s connector(s)
- 1 x VROC_HW_Key
- 1 x Thunderbolt header(s)
- 1 x 24-pin EATX Power connector(s)
- 1 x 6-pin ATX Power connector
- 2 x 8-pin ATX 12V Power connector(s)
- 1 x EZ XMP switch

1 x VGA connector(s)
1 x AUX panel header(s)
1 x 5-pin EXT_FAN(Extension Fan) connector
1 x Power-on button(s)
1 x Reset button(s)
1 x Clear CMOS button(s)
1 x Front fan
1 x Rear fan
1 x U.2 Connector (support U.2 NVMe device)
1 x AIO PUMP Header
1 x Thermal sensor connector
1 x CPU_OV jumper
1 x MemOK! Button
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

CEB Form Factor
12 inch x 10.5 inch (30.5 cm x 26.7 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