



Model

PRIME H810M-A WIFI-CSM

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CPU

Support Intel® Core™ Ultra Processors (Series 2) , LGA1851
Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**
* Refer to <https://www.asus.com/support/download-center/> for CPU support list.
** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.

Chipset

Intel® H810 Chipset

Memory	<div>2 x DIMM slots, max. 128GB, DDR5</div> <div>Supports up to 6400MT/s, Non-ECC, Un-buffered ,Clocked Unbuffered DIMM (CUDIMM)*</div> <div>Dual channel memory architecture</div> <div>DIMM Fit</div> <div>Supports Intel® Extreme Memory Profile (XMP) memory module</div> <div>ASUS Enhanced Memory Profile II (AEMP II)</div> <div>* Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under the Support tab of product information site or visit https://www.asus.com/support/download-center/. Adjustments will be made based on the specifications of mass-produced memory products available on the market.</div> <div>** Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.</div>
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Graphics	<div>1 x DisplayPort**</div> <div>1 x HDMI™ port***</div> <div>* Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.</div> <div>** Supports max. 4K@60Hz as specified in DisplayPort 1.4.</div> <div>*** Supports 4K@60Hz as specified in HDMI 2.1.</div> <div>**** VGA resolution support depends on processors' or graphic cards' resolution.</div>
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Expansion Slots	<div>Intel® Core™ Ultra Processors (Series 2)</div> <div>1 x PCIe 4.0 x16 slot</div> <div>Intel® H810 Chipset</div> <div>1 x PCIe 4.0 x1 slot</div> <div>- To ensure compatibility of the device installed, please refer to https://www.asus.com/support/download-center/ for the list of supported peripherals.</div>
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Storage	<div>Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports</div> <div>Intel® H810 Chipset</div> <div>M.2_1 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)</div> <div>M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x2 mode)</div> <div>4 x SATA 6Gb/s ports</div>
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Ethernet	<div>1 x Intel® 1Gb Ethernet port*</div> <div>ASUS LANGuard</div> <div>*With Intel® I219V LAN, Wake-on-LAN is not supported in S5 after the system transitions from G3.</div>
Wireless & Bluetooth	<div>Wi-Fi 6</div> <div>1x1 Wi-Fi 6 (802.11ax)</div> <div>Supports 2.4/5GHz frequency band</div> <div>Bluetooth® v5.3*</div> <div>* The Bluetooth version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications.</div>
USB	<div>Rear USB (Total 6 ports)</div> <div>2 x USB 10Gbps ports (2 x Type-A)</div> <div>4 x USB 2.0 ports (4 x Type-A)</div> <div>Front USB (Total 5 ports)</div> <div>1 x USB 5Gbps connector (supports USB Type-C®)*</div> <div>1 x USB 5Gbps header supports 2 additional USB 5Gbps ports</div> <div>1 x USB 2.0 header supports 2 additional USB 2.0 ports</div> <div>* USB Type-C® power delivery output: max. 5V/3A</div> <div>** USB_E1 port, USB_E2 port, USB_E3 port and USB_E4 port share the bandwidth.</div>
Audio	<div>Realtek 7.1 Surround Sound High Definition Audio CODEC*</div> <div>- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking</div> <div>- Supports up to 24-Bit/192 kHz playback</div> <div>Audio Features</div> <div>- Audio Shielding</div> <div>- Premium audio capacitors</div> <div>- Dedicated audio PCB layers</div> <div>* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.</div>
Back Panel I/O Ports	<div>2 x USB 10Gbps ports (2 x Type-A)</div> <div>4 x USB 2.0 ports (4 x Type-A)</div> <div>1 x DisplayPort</div> <div>1 x HDMI™ port</div> <div>1 x Wi-Fi module</div> <div>1 x Intel® 1Gb Ethernet port</div> <div>3 x Audio jacks</div> <div>1 x PS/2 keyboard/mouse combo port</div>

Internal I/O Connectors

- Fan and Cooling Related**
- 1 x 4-pin CPU Fan header
- 2 x 4-pin Chassis Fan headers
- Power Related**
- 1 x 24-pin Main Power connector
- 1 x 8-pin +12V CPU Power connector
- Storage Related**
- 2 x M.2 slots (Key M)
- 4 x SATA 6Gb/s ports
- USB**
- 1 x USB 5Gbps connector (supports USB Type-C®)
- 1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
- 1 x USB 2.0 header supports 2 additional USB 2.0 ports
- Miscellaneous**
- 3 x Addressable Gen2 headers
- 1 x Clear CMOS header
- 1 x COM Port header
- 1 x Front Panel Audio header (F_AUDIO)
- 1 x S/PDIF Out header
- 1 x SPI TPM header (14-1 pin)
- 1 x 10-1 pin Front Panel System header

Special Features

- ASUS 5X PROTECTION III**
- DIGI+ VRM
- LANGuard
- Overvoltage protection
- SafeSlot Core+
- Stainless-steel back I/O
- ASUS Q-Design**
- Q-DIMM
- Q-Dashboard
- Q-LED Core
- Q-Slot
- ASUS Thermal Solution**
- VRM heatsink design
- Aura Sync**
- Addressable Gen 2 headers

Software Features

- ASUS Exclusive Software**
- Armoury Crate
- Aura Creator
- Aura Sync
- Fan Xpert 2+
- Power Saving
- ASUS DriverHub
- ASUS GlideX
- Norton 360 Deluxe (60 Days Free Trial)
- WinRAR (40 Days Free Trial)
- UEFI BIOS**
- ASUS EZ DIY
- ASUS CrashFree BIOS 3
- ASUS EZ Flash
- ASUS UEFI BIOS EZ Mode
- ASUS MyHotkey

BIOS	256 (128+128) Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE
Accessories	<div><div>Cables</div><div>2 x SATA 6Gb/s cables</div><div>Miscellaneous</div><div>1 x ASUS Wi-Fi moving antenna</div><div>1 x I/O shield</div><div>1 x Screw package for M.2 SSD</div><div>Documentation</div><div>1 x ACC Express activation key card</div><div>1 x Quick start guide</div></div>
Operating System	Windows 11 (22H2 & later), Windows 10 64-bit (21H2 & later)
Form Factor	micro-ATX Form Factor 9.6 inch x 8.75 inch (24.4 cm x 22.2 cm)