



Model

PRIME B840-PLUS WIFI-CSM

News & Updates

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CPU

AMD Socket AM5 for AMD Ryzen™ 9000 & 8000 & 7000 Series Desktop Processors*

* Refer to <https://www.asus.com/support/download-center/> for CPU support list.

Chipset

AMD B840 Chipset

Memoria

4 x DIMM slots, max. 256GB, DDR5 Supports up to 7600+MT/s (OC) with Ryzen™ 9000 & 8000 & 7000 Series Processors, ECC and Non-ECC Un-buffered DIMM*

Dual channel memory architecture

Supports AMD Extended Profiles for Overclocking (EXPO™)

ASUS Enhanced Memory Profile (AEMP)

* 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.

* Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.

Gráficos

1 x DisplayPort**

1 x HDMI™ port***

* Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications.

** Supports max. 8K@30Hz as specified in DisplayPort 1.4.

*** Supports 4K@60Hz as specified in HDMI 2.1.

Ranuras de expansión

AMD Ryzen™ 9000 & 7000 Series Desktop Processors*

1 x PCIe 4.0 x16 slot (supports x16 mode)

AMD Ryzen™ 8000 Series Desktop Processors

1 x PCIe 4.0 x16 slot (supports x8/x4 mode)**

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1 x PCIe 3.0 x16 slot (support x4 mode)***

2 x PCIe 3.0 x16 slots (support x1 mode)***

1 x PCIe 3.0 x1 slot***

* Please check the PCIe bifurcation table on the support site (<https://www.asus.com/support/FAQ/1037507/>).

** Specifications vary by CPU types.

*** The PCIe16(G3)_1/3 and PCIe1(G3) share bandwidth with PCIe16(G3)_2. The PCIe16(G3)_2 will run x1 mode when any of the PCIe16(G3)_1/3 and PCIe1(G3) slots is occupied.

- To ensure compatibility of the device installed, please refer to <https://www.asus.com/support/download-center/> for the list of supported peripherals.

Almacenamiento

Supports 3 x M.2 slots and 4 x SATA 6Gb/s ports

AMD Ryzen™ 9000 & 7000 Series Desktop Processors

M.2_1 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)

M.2_2 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)

AMD Ryzen™ 8000 Series Desktop Processors

M.2_1 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)

M.2_2 slot (Key M), type 2280 (supports PCIe 4.0 x4/x2 mode)*

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M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 3.0 x4 mode)

4 x SATA 6Gb/s ports

* Specifications vary by CPU types.

AMD RAIDXpert2 Technology

Ryzen™ 9000 Series Processors: RAID 0/1/5/10

Ryzen™ 8000 Series Processors: RAID 0/1

Ryzen™ 7000 Series Processors: RAID 0/1/10

Ethernet

1 x Realtek 2.5Gb Ethernet

ASUS LANGuard

WiFi & Bluetooth

"Wi-Fi 6E

2x2 Wi-Fi 6E (802.11ax)

Supports 2.4/5/6GHz frequency band*

Bluetooth® v5.3**

* Wi-Fi 6E 6GHz regulatory may vary between countries, supported only in Windows 11 or later.

** The Bluetooth® version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications."

USB

Rear USB (Total 8 ports)

2 x USB 10Gbps port(s) (1 x Type-A + 1 x USB Type-C®)

2 x USB 5Gbps ports (2 x Type-A)

4 x USB 2.0 ports (4 x Type-A)

Front USB (Total 7 ports)

1 x USB 5Gbps connector (supports USB Type-C®)

1 x USB 5Gbps header supports 2 additional USB 5Gbps ports

2 x USB 2.0 headers support 4 additional USB 2.0 ports

* USB Type-C® power delivery output: max. 5V/3A

Audio

Realtek 7.1 Surround Sound High Definition Audio CODEC*

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

- Supports up to 24-Bit/192 kHz playback

Audio Features

- Audio Shielding

- Premium audio capacitors

- Dedicated audio PCB layers

* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.

Puertos E/S traseros

- 1 x USB 10Gbps port (1 x USB Type-C®)
- 1 x USB 10Gbps port (1 x Type-A)
- 2 x USB 5Gbps ports (2 x Type-A)
- 4 x USB 2.0 ports (4 x Type-A)
- 1 x DisplayPort
- 1 x HDMI™ port
- 1 x Wi-Fi module
- 1 x Realtek 2.5Gb Ethernet port
- 3 x Audio jacks
- 1 x BIOS FlashBack™ button

Puertos E/S internos

Fan and Cooling Related

- 1 x 4-pin CPU Fan header
- 1 x 4-pin CPU OPT Fan header
- 1 x 4-pin AIO Pump header
- 4 x 4-pin Chassis Fan header

Power Related

- 1 x 24-pin Main Power connector
- 1 x 8-pin +12V CPU Power connectors
- 1 x 4-pin +12V CPU Power connectors

Storage Related

- 3 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
- 2 x USB 2.0 headers support 4 additional USB 2.0 ports

Miscellaneous

- 3 x Addressable Gen 2 headers
- 1 x Clear CMOS header
- 1 x Chassis Intrusion 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 System Panel header
- 1 x Thunderbolt™ (USB4®) header

Tecnologías especiales

ASUS 5X PROTECTION III

- DIGI+ VRM
- LANGuard
- Overvoltage protection
- SafeSlot core+
- Stainless-steel back I/O

ASUS Q-Design

- Q-Antenna
- Q-Dashboard
- Q-DIMM
- Q-LED Core
- Q-Slot

ASUS Thermal Solution

- Flexible M.2 heatsink
- VRM heatsink design

ASUS EZ DIY

- BIOS FlashBack™ button
- BIOS FlashBack™ LED
- Pre-mounted I/O shield
- SafeSlot core+

Aura Sync

- Addressable Gen 2 headers

Software

ASUS Exclusive Software

Armoury Crate

- Aura Creator
- Aura Sync
- Fan Xpert 2+
- Power Saving

ASUS Driver Hub

ASUS GlideX

TurboV Core

ASUS CPU-Z

Norton 360 Deluxe (60 Days Free Trial)

WinRAR (40 Days Free Trial)

UEFI BIOS

ASUS EZ DIY

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode
- ASUS MyHotkey

Remote Management Features

IT Management software supported

- ASUS Control Center Express(ACCE)

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Manejabilidad

WOL by PME, PXE

Accesorios

Cables

2 x SATA 6Gb/s cables

Miscellaneous

1 x ASUS WiFi Q-Antenna

1 x M.2 rubber packages

3 x Screw packages for M.2 SSD

Documentation

1 x ACC Express Activation Key Card

1 x Quick start guide

Sistema operativo

Windows® 11, Windows® 10 64-bit

Factor de forma

ATX Form Factor

12 inch x 9.6 inch (30.5 cm x 24.4 cm)

