



Model

PRIME B650M-K

CPU

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

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

Chipset

AMD B650 Chipset

Memoria

2 x DIMM, Max. 96GB, DDR5

8000+(OC)/7800(OC)/7600(OC)/7200(OC)/7000(OC)/6800(OC)/6600(OC)/6400(OC)/
6200(OC)/6000(OC)/5800(OC)/5600(OC)/5400(OC)/5200/5000/4800

ECC and Non-ECC, Un-buffered Memory*

Dual Channel Memory Architecture

Supports AMD Extended Profiles for Overclocking (EXPO™)

OptiMem II

* 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/>.

* Non-ECC, Un-buffered DDR5 Memory supports On-Die ECC function.

Gráficos

1 x VGA port

1 x HDMI™ port**

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

specifications.

** 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)**

AMD B650 Chipset

2 x PCIe 4.0 x1 slots

* Please check the PCIe bifurcation table on the support site

(<https://www.asus.com/support/FAQ/1037507/>).

** Specifications vary by CPU types.

Almacenamiento

Total supports 2 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 2242/2260/2280 (supports PCIe 5.0 x4 mode)

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

AMD Ryzen™ 8000 Series Desktop Processors

M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4/x2 mode)**

AMD B650 Chipset

4 x SATA 6Gb/s ports

* AMD RAIDXpert2 Technology supports both PCIe RAID 0/1/10 and SATA RAID 0/1/10.

** Specifications vary by CPU types.

Ethernet

1 x Realtek 2.5Gb Ethernet

USB

Rear USB (Total 8 ports)

2 x USB 3.2 Gen 2 ports (2 x Type-A)

2 x USB 3.2 Gen 1 ports (2 x Type-A)

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

Front USB (Total 7 ports)

1 x USB 3.2 Gen 1 connector (supports USB Type-C®)

1 x USB 3.2 Gen 1 header supports 2 additional USB 3.2 Gen 1 ports

2 x USB 2.0 headers support 4 additional USB 2.0 ports

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

2 x USB 3.2 Gen 2 ports (2 x Type-A)

2 x USB 3.2 Gen 1 ports (2 x Type-A)

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

1 x VGA port

1 x HDMI™ port

1 x Realtek 2.5Gb Ethernet port

3 x Audio jacks

1 x BIOS FlashBack™ button

1 x PS/2 Keyboard/Mouse combo port

Puertos E/S internos

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 Power connector

Storage related

2 x M.2 slots (Key M)

4 x SATA 6Gb/s ports

USB

1 x USB 3.2 Gen 1 connector (supports USB Type-C®)

1 x USB 3.2 Gen 1 header supports 2 additional USB 3.2 Gen 1 ports

2 x USB 2.0 headers support 4 additional USB 2.0 ports

Miscellaneous

2 x Addressable Gen 2 headers

1 x Aura RGB header

1 x Clear CMOS header

1 x COM Port header

1 x Front Panel Audio header (AAFP)

1 x S/PDIF Out header

1 x Speaker header

1 x SPI TPM header (14-1pin)

1 x 10-1 pin System Panel header

Tecnologías especiales

ASUS 5X PROTECTION III

- DIGI+ VRM

- LANGuard

- Overvoltage Protection

- Safeslot Core+

- Stainless-Steel Back I/O

ASUS Q-Design

- Q-DIMM

- Q-LED Core

- Q-Slot

ASUS Thermal Solution

- M.2 heatsink

- VRM heatsink design

ASUS EZ DIY

- BIOS FlashBack™ button

- BIOS FlashBack™ LED

Aura Sync

- Aura RGB header

- Addressable Gen 2 headers

Software

ASUS Exclusive Software

Armoury Crate

- Aura Creator

- Aura Sync

- Fan Xpert 2+
- Power Saving
- Two-Way AI Noise Cancellation

AI Suite 3

- TurboV EVO
- DIGI+ VRM
- PC Cleaner

ASUS CPU-Z

Norton 360 Deluxe (60 Days Free Trial)

WinRAR

UEFI BIOS

ASUS EZ DIY

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

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Manejabilidad

WOL by PME, PXE

Accesorios

Cables

2 x SATA 6Gb/s cables

Miscellaneous

1 x I/O Shield

1 x M.2 Rubber Package

1 x Screw Package for M.2 SSD

Documentation

1 x User guide

Sistema operativo

Windows® 11, Windows® 10 64-bit

Factor de forma

micro-ATX Form Factor

9.6 inch x 8.7 inch (24.4 cm x 22.1 cm)

