

PRIME Z690-P WIFI D4

Especificaciones



CPU

Intel® Socket LGA1700 for 12th Gen Intel® Core™, Pentium® Gold and Celeron® Processors

Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**

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

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

Memoria

Memory Channels: 4DDR4 (Dual channel)

Max Memory Size: 128GB

4 x DIMM, Max. 128GB, DDR4 5333(OC)/5133(OC)/5000(OC) /4800(OC)/4600(OC)/4400(OC)/4266(OC)/4133(OC)/4000(OC) /3866(OC)/3733(OC)/3600(OC)/3466(OC)/3400(OC)/3333(OC) /3200/3000/2933/2800/2666/2400/2133 Non-ECC, Un-buffered Memory*

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

OptiMem II

*Actual Memory data rate depends on the CPU types and DRAM modules, for more information refer to www.asus.com for memory support list.

Gráficos

1 x DisplayPort 1.4**

1 x HDMI® port***

1 x DisplayPort**

1 x HDMI® Port***

*Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.

**Supports max. 4K@60Hz as specified in DisplayPort 1.4.

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

Ranuras de expansión

Intel® 12th Gen Processors*

1 x PCIe 5.0/4.0/3.0 x16 slot

Intel® Z690 Chipset**

1 x PCIe 4.0/3.0 x16 slot (supports x4 mode)

2 x PCIe 3.0 x16 slots (support x4 mode)

1 x PCIe 3.0 x1 slot

* Please check PCIe bifurcation table in support site.

** Supports Intel® Optane Memory H Series on PCH-attached PCIe slot.

Almacenamiento

Total supports 3 x M.2 slots and 4 x SATA 6Gb/s ports*

Intel® 12th Gen Processors

M.2_1 slot (Key M), type 2242/2260/2280/22110

- Intel® 12th Gen processors support PCIe 4.0 x4 mode.

Intel® Z690 Chipset**

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

M.2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 & SATA modes)

4 x SATA 6Gb/s ports

* Intel® Rapid Storage Technology supports NVMe RAID 0/1/5, SATA RAID 0/1/5/10.

** Intel® Rapid Storage Technology supports Intel® Optane Memory H Series on PCH attached M.2 slots

Ethernet

Realtek RTL8125B 2.5Gb Ethernet

1 x Realtek 2.5Gb Ethernet

Wireless y Bluetooth

Wi-Fi 6
2x2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax)
Supports 2.4/5GHz frequency band
Bluetooth v5.2

USB

Rear USB: Total 6 ports

Rear USB (Total 6 ports)

1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)
1 x USB 3.2 Gen 2 port (1 x Type-A)
2 x USB 3.2 Gen 1 ports (2 x Type-A)
2 x USB 2.0 ports (2 x Type-A)

Front USB (Total 9 ports)

1 x USB 3.2 Gen 1 connector (supports USB Type-C®)
2 x USB 3.2 Gen 1 headers support additional 4 USB 3.2 Gen 1 ports
2 x USB 2.0 headers support additional 4 USB 2.0 ports*
* USB_E1 port, USB_E2 port, USB_E3 port and USB_E4 port share the bandwidth.

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
- Rear optical S/PDIF out port
- Premium audio capacitors
- Dedicated audio PCB layers

Puertos E/S traseros

1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)
1 x USB 3.2 Gen 2 port (1 x Type-A)
2 x USB 3.2 Gen 1 ports (2 x Type-A)
2 x USB 2.0 ports (2 x Type-A)
1 x DisplayPort

1 x HDMI® port
1 x Wi-Fi Module
1 x Realtek 2.5Gb Ethernet port
5 x Audio jacks
1 x Optical S/PDIF out port
1 x PS/2 Keyboard/Mouse combo port

Puertos internos

1 x Thunderbolt 4 header

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
3 x 4-pin Chassis Fan headers

Power related

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

Storage related

3 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®)
2 x USB 3.2 Gen 1 headers support additional 4 USB 3.2 Gen 1 ports
2 x USB 2.0 headers support additional 4 USB 2.0 ports

Miscellaneous

3 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 SPI TPM header (14-1pin)
1 x 20-5pin System Panel header
1 x Thunderbolt™ header

Funciones especiales de ASUS **ASUS 5X PROTECTION III**

- DIGI+ VRM (- Digital power design with DrMOS)
- LANGuard

- Overvoltage Protection
- SafeSlot
- Stainless-Steel Back I/O

ASUS Q-Design

- Q-DIMM
- Q-Slot

ASUS Thermal Solution

- Flexible M.2 heatsink
- VRM heatsink design

ASUS EZ DIY

- ProCool

AURA Sync

- AURA RGB headers
 - Addressable Gen 2 headers
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Software

ASUS Exclusive Software

Armoury Crate

- AURA Sync
- Fan Xpert 4

AI Suite 3

- Performance And Power Saving Utility

TurboV EVO

EPU

DIGI+ VRM

ASUS CPU-Z

MyASUS

Norton Anti-virus software (Free Trial version)

WinRAR

UEFI BIOS

ASUS EZ DIY

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

192 (128+64) Mb Flash ROM, UEFI AMI BIOS

Manejabilidad

WOL by PME, PXE

Accesorios

Cables

2 x SATA 6Gb/s cables

Miscellaneous

1 x ASUS Wi-Fi moving antennas

1 x I/O Shield

1 x M.2 Rubber Package

2 x M.2 SSD screw packages

Installation Media

1 x Support DVD

Documentation

1 x User guide

Sistema operativo

Windows® 11 64-bit

Windows® 10 64-bit
