

# PRIME Z690-P WIFI D4

Especificaciones



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## CPU

Intel® Socket LGA1700 for 12<sup>th</sup> 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](http://www.asus.com) for CPU support list.

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

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## 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](http://www.asus.com) for memory support list.

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## 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](http://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.

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## Ranuras de expansión

### Intel® 12<sup>th</sup> 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.

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## Almacenamiento

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

#### Intel® 12<sup>th</sup> Gen Processors

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

- Intel® 12<sup>th</sup> 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

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## Ethernet

Realtek RTL8125B 2.5Gb Ethernet

1 x Realtek 2.5Gb Ethernet

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## 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

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## 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.

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## 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

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## 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

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## 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

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## 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

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## Manejabilidad

WOL by PME, PXE

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## 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

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## Sistema operativo

Windows® 11 64-bit

Windows® 10 64-bit

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