

# TUF GAMING Z690-PLUS WIFI D4

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## 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](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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## Chipset

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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 frequency support depends on the CPU types and DRAM modules, for more information refer to [www.asus.com](http://www.asus.com) for the Memory QVL (Qualified Vendors Lists).

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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.

\*\*\*\* VGA resolution support depends on processors' or graphic cards' resolution.

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## Ranuras de expansión

### **Intel® 12th Gen Processors\***

1 x PCIe 5.0 x16 slot

### **Intel® Z690 Chipset\*\***

1 x PCIe 3.0 x16 slot (supports x4 mode)

1 x PCIe 3.0 x4 slot

2 x PCIe 3.0 x1 slots

\* Please check PCIe bifurcation table in support site.

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

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## Almacenamiento

Supports 4 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 & SATA modes)

M.2\_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)

M.2\_4 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

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

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## Ethernet

1 x Intel® 2.5Gb Ethernet  
TUF LANGuard

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## Wireless y Bluetooth

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:Rear USB Port ( Total 8 )  
1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)  
2 x USB 3.2 Gen 2 ports (2 x Type-A)  
5 x USB 3.2 Gen 1 ports (4 x Type-A + 1 x USB Type-C®)

Front USB:Total 7 ports  
1 x USB 3.2 Gen 2 connector (supports USB Type-C®)  
1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports  
2 x USB 2.0 headers support additional 4 USB 2.0 ports

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## Audio

ALC887/897  
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
- Audio Cover

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## Puertos E/S traseros

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

5 x USB 3.2 Gen 1 ports (4 x Type-A + 1 x USB Type-C®)

1 x DisplayPort

1 x HDMI® port

1 x Wi-Fi Module

1 x Intel® 2.5Gb Ethernet port

5 x Audio jacks

1 x Optical S/PDIF out 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

4 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**

4 x M.2 slots (Key M)

4 x SATA 6Gb/s ports

### **USB**

1 x USB 3.2 Gen 2 connector (supports USB Type-C®)

1 x USB 3.2 Gen 1 header supports additional 2 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 20-3 pin System Panel header with Chassis intrude function

1 x Thunderbolt™ header

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## Funciones especiales de ASUS

### **ASUS TUF PROTECTION**

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

- Enhanced DRAM Overcurrent Protection

- ESD Guards
- TUF LANGuard
- Overvoltage Protection
- Safeslot
- Stainless-Steel Back I/O

#### **ASUS Q-Design**

- M.2 Q-Latch
- Q-DIMM
- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
- Q-Slot

#### **ASUS Thermal Solution**

- M.2 heatsink
- VRM heatsink design

#### **ASUS EZ DIY**

- CPU Socket lever protector
- ProCool
- Pre-mounted I/O shield
- SafeDIMM

#### **AURA Sync**

- AURA RGB header
- Addressable Gen 2 headers

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## Software

### **ASUS Exclusive Software**

Armoury Crate

- AURA Creator
- AURA Sync
- Fan Xpert 4
- Two-Way AI Noise Cancelation

AI Suite 3

- Performance And Power Saving Utility

TurboV EVO

EPU

DIGI+ VRM

TUF GAMING CPU-Z

DTS Audio Processing

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 antenna

2 x M.2 Rubber Packages

1 x M.2 SSD screw package

1 x TUF GAMING sticker

**Installation Media**

1 x Support DVD

**Documentation**

1 x TUF Certification card

1 x User guide

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**Sistema operativo**

Windows® 11 64-bit

Windows® 10 64-bit

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**Factor de forma**

30.5cm x 24.4cm