

MB s1700 ASUS TUF GAMING Z790-PRO WIFI 90MB1FJ0-M0EAY0

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TUF GAMING Z790-PRO WIFI

CPU

Intel® LGA 1700 socket: Ready for Intel® Core™ 14th & 13th Gen Intel® Core™ processors, Intel® Core™ 12th Gen, 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.

Chipset

Intel® Z790 Chipset

Memory

4 x DIMM slots, max. 192GB, DDR5

7800+(OC)/7600(OC)/7400(OC)/7200(OC)/7000(OC)/6800(OC)/6600(OC)/6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600/ 5400/ 5200/ 5000/ 4800 Non-ECC, Un-buffered Memory*

Dual channel memory architecture

Supports Intel® Extreme Memory Profile (XMP) memory module

ASUS Enhanced Memory Profile II (AEMP 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.

Graphics

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.

Expansion Slots

Intel® Core™ Processors(14th & 13th & 12th)*

1 x PCIe 5.0 x16 slot

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1 x PCIe 4.0 x16 slot (supports x4 mode)

1 x PCIe 4.0 x4 slot

1 x PCIe 3.0 x16 slot (supports x1 mode)

1 x PCIe 3.0 x1 slot

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

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

Storage

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

Intel® Core™ Processors(14th & 13th & 12th)*

M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)

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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 mode)

M.2_4 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 & SATA modes)

4 x SATA 6Gb/s ports

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

Ethernet

1 x Intel® 2.5Gb Ethernet

TUF LANGuard

Wireless & Bluetooth

Wi-Fi 6E

2x2 Wi-Fi 6E (802.11ax)

Supports 2.4/5/6GHz frequency band*

Bluetooth® v5.3**

* Wi-Fi 6GHz frequency band regulatory may vary between countries.

** 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)

1 x USB 20Gbps port (1 x USB Type-C®)

3 x USB 10Gbps ports (2 x Type-A + 1 x USB Type-C®)

4 x USB 5Gbps ports (4 x Type-A)

Front USB (Total 7 ports)

1 x USB 20Gbps connector (supports USB Type-C® with up to 30W PD Fast-charge)

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

2 x USB 2.0 headers support additional 4 USB 2.0 ports

Audio

Realtek S1220A 7.1 Surround Sound High Definition Audio CODEC*

- Impedance sense for front and rear headphone outputs

- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers

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

- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in)

- Supports up to 32-Bit/192 kHz playback**

Audio Features

- Audio Shielding

- Rear optical S/PDIF out port

- Premium audio capacitors

- Dedicated audio PCB layers

- Audio Cover

- Unique de-pop circuit

* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1 Surround Sound audio.

Back Panel I/O Ports

1 x USB 20Gbps port (1 x USB Type-C®)

3 x USB 10Gbps ports (2 x Type-A + 1 x USB Type-C®)

4 x USB 5Gbps ports (4 x Type-A)

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

Internal I/O Connectors

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

2 x 8-pin +12V power connectors

Storage Related

4 x M.2 slots (Key M)

4 x SATA 6Gb/s ports

USB

1 x USB 20Gbps connector (supports USB Type-C®)

1 x USB 5Gbps header supports 2 additional USB 5Gbps 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 (F_AUDIO)

1 x 20-3 pin system panel header with chassis intrusion function

1 x Thunderbolt™ (USB4®) header

Special Features

ASUS TUF PROTECTION

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

- ESD Guards

- TUF LANGuard

- Overvoltage protection

- SafeSlot

- Stainless-steel back I/O

ASUS Q-Design

- M.2 Q-Latch

- PCIe Slot Q-Release

- Q- Antenna

- 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

Front Panel USB 20Gbps with PD Fast Charge Support

- Support: up to 30W fast charging and USB Wattage Watcher

- Output: 5V/9V max. 3A, 12V max 2.5A

- Compatible with PD3.0

Software Features

ASUS Exclusive Software

Armoury Crate

- Aura Creator

- Aura Sync

- Fan Xpert 4 (with AI Cooling II)

- Power Saving

- Two-Way AI Noise Cancelation

AI Suite 3

- Easy Optimization with AI Overclocking

- TPU

- DIGI+ VRM

- Turbo app

- PC Cleaner

MyAsus

USB Wattage Watcher

TUF GAMING CPU-Z

DTS Audio Processing

Norton 360 for Gamers (60 Days Free Trial)

WinRAR (40 Days Free Trial)

UEFI BIOS

AI Overclocking Guide

ASUS EZ DIY

- ASUS CrashFree BIOS 3

- ASUS EZ Flash 3

- ASUS UEFI BIOS EZ Mode

- ASUS MyHotkey

BIOS

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

Manageability

WOL by PME, PXE

Accessories

Cables

2 x SATA 6Gb/s cables

Miscellaneous

1 x ASUS WiFi Q-Antenna

1 x TUF GAMING sticker

2 x M.2 rubber packages

1 x Screw package for M.2 SSD

Documentation

1 x TUF certification card

1 x Quick start guide

Operating System

Windows® 11, Windows® 10 64-bit

Form Factor

ATX Form Factor

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