
Model ProArt Z890-CREATOR WIFI

CPU Support Intel® Core™ Ultra Processors (Series 2), LGA1851
Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**
* Refer to <https://www.asus.com/support/download-center/> for CPU support list.
** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.

Chipset Intel® Z890 Chipset

Memoria 4 x DIMM slots, max. 192GB, DDR5
Support up to 9066+MT/s (OC), Non-ECC, Un-buffered and Clocked Unbuffered DIMM (CUDIMM)*
Dual channel memory architecture
Supports Intel® Extreme Memory Profile (XMP) memory module
ASUS Enhanced Memory Profile III (AEMP III)
Support DIMM Fit
Support DIMM Flex
* Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration 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 HDMI™ port**
2 x Intel® Thunderbolt™ 5 ports (USB Type-C®) support DisplayPort and Thunderbolt™ video outputs***
1 x Intel® Thunderbolt™ 4 ports (USB Type-C®) support DisplayPort and Thunderbolt™ video outputs****
* Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.
** Supports 4K@60Hz as specified in HDMI 2.1
*** Supports up to 2 x 8K@60HZ (DSC mode) + 1 x 4K@60HZ monitors with DP in.
**** Supports up to 1 x 8K@60HZ (DSC mode) + 1 x 4K@60HZ monitors without DP in.

*** For resolution support please check DisplayPort 2.1 specs. Thunderbolt™ 5 bandwidth is limited by DisplayPort™ 2.1 with chain-connecting the monitors using verified Thunderbolt™ cables.

**** In Thunderbolt™ 4 mode, supports up to 8K@60Hz x1 with DSC, maximum total bandwidth up to 23.8Gbps, for resolution 2.1 specs. In DP alt mode, supports up to UHBR20.

***** While installing the operating system, please ensure that your monitor is connected to the HDMI port on the back I/O

Ranuras de expansión

Intel® Core™ Ultra Processors (Series 2) *

2 x PCIe 5.0 x16 slots (supports x16 or x8/x8 modes)

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*1 x PCIe 4.0 x16 slot (supports x4 mode)

* Please check the PCIe bifurcation table on 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/download-center/> for the list

Almacenamiento

Total supports 5 x M.2 slots and 4 x SATA 6Gb/s ports*

Intel® Core™ Ultra Processors (Series 2) *

M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)

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

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

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

M.2_5 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, M.2 slot from CPU only supports RAID

** M.2_5 slot shares bandwidth with PCIe 4.0 x16 slot. When M.2_5 slot is operating, PCIe 4.0 x16 slot will be disabled.

Ethernet

1 x Marvell® AQtion 10Gb Ethernet

1 x Intel® 2.5Gb Ethernet

ASUS LANGuard

Wireless & Bluetooth

Wi-Fi 7*

2x2 Wi-Fi 7 (802.11be)

Supports 2.4/5/6GHz frequency band**

Support Wi-Fi 7 320MHz bandwidth, up to 5.8Gbps transfer rate.

Bluetooth® v5.4***

*Wi-Fi features may vary depending on the operating system

For Windows 11, Wi-Fi 7 will require 24H2 or later version for full functions, Windows 11 21H2/22H2/23H2 only supports Wi-

For Windows 10, only Wi-Fi 6 is supported.

** Wi-Fi 6GHz frequency band and bandwidth 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 10 ports)

2 x Thunderbolt™ 5 ports (2 x USB Type-C®)

1 x Thunderbolt™ 4 port (1 x USB Type-C®)

6 x USB 10Gbps ports (6 x Type-A)

1 x USB 2.0 port (1 x Type-A)

Front USB (Total 5 ports)

1 x USB 20Gbps (supports USB Type-C®)

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

1 x USB 2.0 header supports 2 additional USB 2.0 ports

USB Type-C® power delivery output: max. 5V/3A

Audio

Realtek ALC1220P 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
- Gold-plated audio jacks
- Premium audio capacitors
- Dedicated audio PCB layers

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

** A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.

Puertos de E/S del panel posterior

2 x Thunderbolt™ 5 USB Type-C® ports
 1 x Thunderbolt™ 4 USB Type-C® port
 6 x USB 10Gbps ports (6 x Type-A)
 1 x USB 2.0 port (1 x Type-A)
 1 x DisplayPort (Input only)
 1 x HDMI™ port
 1 x Wi-Fi module
 1 x Marvell® AQtion 10Gb Ethernet port
 1 x Intel® 2.5Gb Ethernet port
 2 x Gold-plated audio jacks
 1 x BIOS FlashBack™ button

Conectores de E/S internos

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
 5 x 4-pin Chassis Fan headers

Power Related

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

Storage Related

5 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
 1 x USB 2.0 header supports 2 additional USB 2.0 ports

Miscellaneous

3 x Addressable Gen2 headers
 1 x Clear CMOS button
 1 x COM Port header
 1 x CPU Over voltage jumper
 1 x Chassis Intrusion header
 1 x Front Panel Audio header (F_AUDIO)
 1 x SPI TPM header (14-1 pin)
 1 x 10-1 pin Front System Panel header
 1 x Thermal Sensor header

Características especiales

ASUS 5X PROTECTION III /

- DIGI+ VRM (- Digital power design with DrMOS)
- ESD Guards
- LANGuard
- Overvoltage protection
- SafeSlot
- Stainless-steel back I/O

ASUS Q-Design

- M.2 Q-Latch
- M.2 Q-Release
- M.2 Q-Slide

- Q-Release Slim (with PCIe SafeSlot)
- Q-Antenna
- Q-Connector
- Q-Dashboard
- Q-DIMM
- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])

ASUS Thermal Solution

- M.2 heatsink backplate
- M.2 heatsink
- VRM heatsink design

ASUS EZ DIY

- BIOS FlashBack™ button
- BIOS FlashBack™ LED
- Box headers
- Clear CMOS button
- CPU Socket lever protector
- ProCool II
- Pre-mounted I/O shield
- SafeDIMM

Aura Sync

- Addressable Gen2 headers

Bespoke Motherboard Design & Business Focused Features

- 24/7 reliability- Overcurrent protection

Funciones de software

ASUS Exclusive Software

- Armoury Crate
- Aura Creator
- Aura Sync
- Fan Xpert 4
- Power Saving
- ASUS Driver Hub
- ASUS GlideX
- ASUS CPU-Z
- CreationFirst
- ProArt Creator Hub
- TurboV Core
- Thunderbolt™ Share
- USB Wattage Watcher
- Adobe Creative Cloud (Free Trial)
- Norton 360 Deluxe (60 Days Free Trial)
- WinRAR (40 Days Free Trial)

UEFI BIOS

- AI Overclocking Guide
- ASUS EZ DIY
- ASUS CrashFree BIOS 3
- ASUS EZ Flash
- ASUS UEFI BIOS EZ Mode
- ASUS MyHotkey
- NPU Boost

Remote Management Features

- IT Management software supported
- ASUS Control Center Express(ACCE)

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Manejabilidad

WOL by PME, PXE

Accesorios

Cables

2 x SATA 6Gb/s cables

Miscellaneous

1 x ASUS WiFi Q-Antenna

1 x Q-connector

2 x M.2 Q-Latch packages

2 x M.2 rubber packages

1 x ProArt accessory bag

Documentation

1 x ACC Express activation key card

1 x Quick start guide

Sistema operativo

Windows 11 (22H2 & later)

Factor de forma

ATX Form Factor

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