**ASUS**

# ASUS PRIME Z790-A WIFI Intel Z790 LGA 1700 ATX

**Brand :** ASUS

**Product name :** PRIME Z790-A WIFI

**Product code:** 90MB1CS0-M0EAY0

16 + 1 Teamed Power Stages (60A) with Enlarged Heatsinks, Gen 5 Slot for Graphics Card, AEMP II for Ultimate DDR5 Performance, USB 3.2 Gen 2x2 Type-C® & Thunderbolt (USB4®) Support , 2.5 Gb Ethernet, WiFi 6E, Intelligent Control, AI Cooling II

ASUS PRIME Z790-A WIFI. Processor manufacturer: Intel, Processor socket: LGA 1700, Compatible processor series: Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9,.... Supported memory types: DDR5-SDRAM, Maximum internal memory: 192 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 5, 10. Ethernet interface type: 2.5 Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 6E (802.11ax), Wi-Fi standards: 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E.... Component for: PC, Motherboard form factor: ATX, Motherboard chipset family: Intel
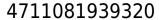
## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor socket * | LGA 1700 |
| Compatible processor series * | Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold |
| Supported processor sockets | LGA 1700 |

**Memory**

| | |
|---|---|
| Supported memory types * | DDR5-SDRAM |
| Number of memory slots * | 4 |
| Memory slots type | DIMM |
| Memory channels | Dual-channel |
| ECC | ✗ |
| Non-ECC | ✓ |
| Supported memory clock speeds | 4800,5000,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200 MHz |
| Supported memory clock speed (max) | 7200 MHz |
| Maximum internal memory * | 192 GB |
| Unbuffered memory | ✓ |

## Storage controllers

| | |
|---|---|
| Supported storage drive types | HDD & SSD |
| Supported storage drive interfaces * | M.2, SATA III |
| RAID support | ✓ |
| RAID levels | 0, 1, 5, 10 |

## Graphics

| | |
|---|---|
| Parallel processing technology support * | Not supported |
| On-board graphics card | ✗ |

## Internal I/O

| | |
|---|---|
| USB 2.0 connectors * | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 1 |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors * | 1 |
| Number of SATA III connectors * | 4 |
| Front panel audio connector | ✓ |

## Rear panel I/O ports

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 |
| USB 3.2 Gen 2x2 Type-C ports quantity | 1 |
| Ethernet LAN (RJ-45) ports * | 1 |
| HDMI ports quantity * | 1 |
| DisplayPorts quantity | 1 |
| Headphone outputs | 1 |
| Line-in | ✓ |
| Microphone in | ✓ |
| S/PDIF out port | ✗ |
| WiFi-AP antenna jack | 1 |

## Network

| | |
|---|---|
| Ethernet LAN | ✓ |
| Ethernet interface type | 2.5 Gigabit Ethernet |
| Wi-Fi * | ✓ |
| Top Wi-Fi standard | Wi-Fi 6E (802.11ax) |
| Wi-Fi standards | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax) |
| Bluetooth | ✓ |
| Bluetooth version | 5.3 |

## Features

| | |
|---|---|
| Motherboard chipset * | Intel Z790 |
| Audio output channels * | 7.1 channels |
| Product colour | Black, White |
| Component for * | PC |
| Motherboard form factor * | ATX |
| Motherboard chipset family * | Intel |
| Power source type | ATX |
| Windows operating systems supported | Windows 10 x64, Windows 11 |

## Internal I/O

| | |
|---|---|
| ATX Power connector (24-pin) | ✓ |
| CPU fan connector | ✓ |
| Number of chassis fan connectors | 4 |
| Chassis intrusion connector | ✓ |
| EPS power connector (8-pin) | ✓ |
| Number of COM connectors | 1 |
| TPM connector | ✓ |
| Thunderbolt headers | 1 |
| 12V power connector | ✓ |
| RGB LED pin header | ✓ |

## Rear panel I/O ports

| | |
|---|---|
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2 |

## Expansion slots

| | |
|---|---|
| PCI Express x1 (Gen 3.x) slots | 2 |
| PCI Express x4 (Gen 4.x) slots | 1 |
| PCI Express x16 (Gen 4.x) slots | 1 |
| PCI Express x16 (Gen 5.x) slots | 1 |
| Number of M.2 (M) slots | 4 |

## BIOS

| | |
|---|---|
| BIOS type * | UEFI AMI |
| BIOS memory size | 256 Mbit |
| Clear CMOS button | ✓ |

## Packaging data

| | |
|---|---|
| Package width | 280 mm |
| Package depth | 265 mm |
| Package height | 71 mm |
| Package weight | 1.27 kg |

## Weight & dimensions

| | |
|---|---|
| Width | 305 mm |
| Depth | 244 mm |

## Packaging content

| | |
|---|---|
| Cables included | SATA |
| Drivers included | ✓ |

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