

ASUS PRIME Z790-P WIFI Intel Z790 LGA 1700 ATX

Brand : ASUS

Product code: 90MB1CJ0-M0EAY0

Product name : PRIME Z790-P WIFI

14 + 1 Teamed Power Stages (50A) 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, Wi-Fi 6, Intelligent Control, AI Cooling II

ASUS PRIME Z790-P 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: 128 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 6 (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). Component for: PC, Motherboard form factor: ATX, Motherboard chipset family: Intel



| Processor | | Rear panel I/O ports | |
|--|---|---|--|
| Processor manufacturer * | Intel | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 1 |
| Processor socket * | LGA 1700 | USB 3.2 Gen 2x2 Type-C ports quantity | 1 |
| Compatible processor series * | Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold | Ethernet LAN (RJ-45) ports * | 1 |
| Supported processor sockets | LGA 1700 | PS/2 ports quantity | 1 |
| Memory | | HDMI ports quantity * | 1 |
| Supported memory types * | DDR5-SDRAM | DisplayPorts quantity | 1 |
| Number of memory slots * | 4 | Headphone outputs | 1 |
| Memory slots type | DIMM | Line-in | ✓ |
| Memory channels | Dual-channel | Microphone in | ✓ |
| Non-ECC | ✓ | Wi-Fi-AP antenna jack | 1 |
| Supported memory clock speeds | 4800,5000,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200 MHz | Network | |
| Supported memory clock speed (max) | 7200 MHz | Ethernet LAN | ✓ |
| Maximum internal memory * | 128 GB | Ethernet interface type | 2.5 Gigabit Ethernet |
| Unbuffered memory | ✓ | Wi-Fi * | ✓ |
| Storage controllers | | Top Wi-Fi standard | Wi-Fi 6 (802.11ax) |
| Supported storage drive types | HDD & SSD | Wi-Fi standards | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax) |
| Supported storage drive interfaces * | M.2, SATA III | Bluetooth | ✓ |
| RAID support | ✓ | Bluetooth version | 5.2 |
| RAID levels | 0, 1, 5, 10 | Features | |
| Graphics | | Motherboard chipset * | Intel Z790 |
| Parallel processing technology support * | Not supported | Audio output channels * | 7.1 channels |
| Internal I/O | | Component for * | PC |
| USB 2.0 connectors * | 2 | Motherboard form factor * | ATX |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 2 | Motherboard chipset family * | Intel |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors * | 1 | Power source type | ATX |
| Number of SATA III connectors * | 4 | Windows operating systems supported | Windows 10 x64, Windows 11 |
| S/PDIF out connector | ✓ | Expansion slots | |
| Front panel audio connector | ✓ | PCI Express x1 (Gen 3.x) slots | 1 |
| ATX Power connector (24-pin) | ✓ | | |

| Internal I/O | | Expansion slots | |
|---|---|---------------------------------|----------|
| CPU fan connector | ✓ | PCI Express x16 (Gen 4.x) slots | 3 |
| Number of chassis fan connectors | 3 | PCI Express x16 (Gen 5.x) slots | 1 |
| Peripheral (Molex) power connectors (4-pin) | 1 | Number of M.2 (M) slots | 3 |
| EPS power connector (8-pin) | ✓ | BIOS | |
| Number of COM connectors | 1 | BIOS type * | UEFI AMI |
| TPM connector | ✓ | BIOS memory size | 192 Mbit |
| Thunderbolt headers | 1 | Clear CMOS button | ✓ |
| 12V power connector | ✓ | Packaging data | |
| RGB LED pin header | ✓ | Package width | 338 mm |
| Rear panel I/O ports | | Package depth | 273 mm |
| USB 2.0 ports quantity * | 4 | Package height | 68 mm |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 | Package weight | 1.68 kg |
| | | Weight & dimensions | |
| | | Width | 305 mm |
| | | Depth | 234 mm |
| | | Height | 40 mm |
| | | Packaging content | |
| | | Cables included | SATA |
| | | Drivers included | ✓ |
| | | Other features | |
| | | Weight | 1.03 kg |



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Publication date: 24-SEP-2024. Prints or copies of Information are only valid on the printed Publication date