

ASUS PRIME Z790-P D4 Intel Z790 LGA 1700 ATX

Brand : ASUS

Product code: 90MB1CV0-M0EAY0

Product name : PRIME Z790-P D4



- Intel® LGA 1700 socket: Ready for 12th and 13th Gen Intel® processors
 - Enhanced power solution: 14+1 DrMOS, 6-layer PCB, ProCool connectors, alloy chokes and durable capacitors for stable power delivery
 - Next-gen connectivity: PCIe® 5.0, Realtek 2.5Gb Ethernet, USB 3.2 Gen2x2 Type-C®, front panel USB 3.2 Gen 2 Type-C®, Thunderbolt™ (USB4®) header support, 3 PCIe® 4.0 M.2
 - ASUS OptiMem II: Careful routing of traces and vias, plus ground layer optimizations to preserve signal integrity for improved memory overclocking
 - Comprehensive cooling: Large VRM heatsinks, flexible M.2 heatsink, PCH heatsink, hybrid fan headers and Fan Xpert 4 with AI Cooling II
- ASUS Prime Z790-P D4, an Intel Z790 LGA 1700 ATX motherboard with PCIe® 5.0, three M.2 slots, 14+1 DrMOS, DDR4, Realtek 2.5 Gb LAN, HDMI®, DP, USB 3.2 Gen 2x2 Type-C®, front USB 3.2 Gen 2 Type-C, Thunderbolt™ (USB4®) support, Aura Sync

| Processor | | Rear panel I/O ports | |
|--|--|---|----------------------------|
| Processor manufacturer * | Intel | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |
| Processor socket * | LGA 1700 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 1 |
| Compatible processor series * | Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold | USB 3.2 Gen 2x2 Type-C ports quantity | 1 |
| Supported processor sockets | LGA 1700 | Ethernet LAN (RJ-45) ports * | 1 |
| Memory | | PS/2 ports quantity | 1 |
| Supported memory types * | DDR4-SDRAM | HDMI ports quantity * | 1 |
| Number of memory slots * | 4 | DisplayPorts quantity | 1 |
| Memory slots type | DIMM | Headphone outputs | 1 |
| Memory channels | Dual-channel | Line-in | ✓ |
| ECC compatibility | Non-ECC | Microphone in | ✓ |
| Supported memory clock speeds | 2133,2400,2666,2800,2933,3000,3200,3333,3400,3466,3600,3733,3866,4000,4133,4266,4400,4500,4600,4700,4800,5000,5066,5133,5333 MHz | Network | |
| Supported memory clock speed (max) | 5333 MHz | Ethernet LAN | ✓ |
| Maximum internal memory * | 128 GB | Ethernet interface type | 2.5 Gigabit Ethernet |
| Unbuffered memory | ✓ | Wi-Fi * | ✓ |
| Storage controllers | | Features | |
| Supported storage drive types | HDD & SSD | Motherboard chipset * | Intel Z790 |
| Supported storage drive interfaces * | M.2, SATA III | Audio output channels * | 7.1 channels |
| RAID support | ✓ | Component for * | PC |
| RAID levels | 0, 1, 5, 10 | Motherboard form factor * | ATX |
| Graphics | | Motherboard chipset family * | Intel |
| Parallel processing technology support * | Not supported | Power source type | ATX |
| Internal I/O | | Windows operating systems supported | Windows 10 x64, Windows 11 |
| USB 2.0 connectors * | 2 | Expansion slots | |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 2 | PCI Express x1 (Gen 3.x) slots | 1 |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors * | 1 | PCI Express x16 (Gen 4.x) slots | 3 |
| Number of SATA III connectors * | 4 | PCI Express x16 (Gen 5.x) slots | 1 |
| S/PDIF out connector | ✓ | Number of M.2 (M) slots | 3 |
| Front panel audio connector | ✓ | | |
| ATX Power connector (24-pin) | ✓ | | |
| CPU fan connector | ✓ | | |
| Number of chassis fan connectors | 3 | | |

| Internal I/O | | BIOS | |
|---|---|-------------------------|----------|
| Peripheral (Molex) power connectors (4-pin) | 1 | BIOS type * | UEFI AMI |
| EPS power connector (8-pin) | ✓ | BIOS memory size | 192 Mbit |
| Number of COM connectors | 1 | Clear CMOS button | ✓ |
| TPM connector | ✓ | Packaging data | |
| Thunderbolt headers | 1 | Package width | 338 mm |
| 12V power connector | ✓ | Package depth | 273 mm |
| RGB LED pin header | ✓ | Package height | 68 mm |
| Rear panel I/O ports | | Package weight | 1.58 kg |
| USB 2.0 ports quantity * | 4 | Weight & dimensions | |
| | | Width | 305 mm |
| | | Depth | 234 mm |
| | | Packaging content | |
| | | Cables included | SATA |
| | | Drivers included | ✓ |
| | | Other features | |
| | | Number of M.2 (E) slots | 1 |



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