

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	✓
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	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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