

ASUS PRIME Z790-P Intel Z790 LGA 1700 ATX

Brand : ASUS

Product code: 90MB1CK0-M1EAY0

Product name : PRIME Z790-P

PRIME Z790-P, LGA1700, 4 DDR5, ATX

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



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 2.0 ports quantity *	4
Processor socket *	LGA 1700	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
Supported processor sockets	LGA 1700	USB 3.2 Gen 2x2 Type-C ports quantity	1
Memory		Ethernet LAN (RJ-45) ports *	1
Supported memory types *	DDR5-SDRAM	PS/2 ports quantity	1
Number of memory slots *	4	HDMI ports quantity *	1
Memory slots type	DIMM	HDMI version	2.1
Memory channels	Dual-channel	DisplayPorts quantity	1
ECC compatibility	Non-ECC	DisplayPort version	1.4
Supported memory clock speeds	4800,5000,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200 MHz	Headphone outputs	1
Supported memory clock speed (max)	7200 MHz	Line-in	✓
Maximum internal memory *	192 GB	Microphone in	✓
Unbuffered memory	✓	Network	
Storage controllers		Ethernet LAN	✓
Supported storage drive types	HDD & SSD	Ethernet interface type	2.5 Gigabit Ethernet
Supported storage drive interfaces *	M.2, SATA III	Wi-Fi *	✗
Number of HDDs supported	4	Features	
Number of storage drives supported	3	Motherboard chipset *	Intel Z790
RAID support	✓	Audio output channels *	7.1 channels
RAID levels	0, 1, 5, 10	Product colour	Black
Graphics		Component for *	PC
Parallel processing technology support *	Not supported	Motherboard form factor *	ATX
Internal I/O		Motherboard chipset family *	Intel
USB 2.0 connectors *	2	Cooling type	Passive
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2		

Internal I/O		Features	
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)	✓	PCI Express x16 (Gen 4.x) slots	3
CPU fan connector	✓	PCI Express x16 (Gen 5.x) slots	1
Number of chassis fan connectors	3	Number of M.2 (M) slots	3
Peripheral (Molex) power connectors (4-pin)	1	BIOS	
EPS power connector (8-pin)	✓	BIOS type *	UEFI AMI
Number of COM connectors	1	BIOS memory size	192 Mbit
TPM connector	✓	Weight & dimensions	
Thunderbolt headers	1	Width	305 mm
12V power connector	✓	Depth	234 mm
RGB LED pin header	✓	Packaging content	
		Cables included	SATA
		User guide	✓
		Other features	
		Number of M.2 (E) slots	1



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