

ASUS PRIME Z690-P Intel Z690 LGA 1700 ATX

Brand : ASUS

Product code: 90MB19Q0-M0EAY0

Product name : PRIME Z690-P

- Intel® LGA 1700 socket: Ready for 12th gen Intel® processors
 - Enhanced power solution: 14+1 DrMOS, 8+4 pin ProCool connector, alloy chokes and durable capacitors for stable power delivery
 - Comprehensive cooling: Large VRM heatsinks, M.2 heatsink, PCH heatsink, hybrid fan headers and Fan Xpert 4
 - ASUS OptiMem II: Careful routing of traces and vias, plus ground layer optimizations to preserve signal integrity for improved memory overclocking
 - Next-gen connectivity: DDR5, PCIe® 5.0, 2.5 Gb Ethernet, USB 3.2 Gen 2x2 Type-C®, front panel USB 3.2 Gen 1 Type-C®, Thunderbolt™ 4 header support
- Intel® Z690 (LGA 1700) ATX motherboard with PCIe® 5.0, DDR5, three M.2 slots, 14+1 DrMOS, HDMI®, DisplayPort™, 2.5 Gb Ethernet, USB 3.2 Gen 2x2 Type-C®, front USB 3.2 Gen 1 Type-C®, Thunderbolt™ 4 support and Aura Sync RGB lighting



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 G	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 MHz	Headphone outputs	1
Maximum internal memory *	128 GB	Microphone in	✓
Unbuffered memory	✓	S/PDIF out port	✓
Storage controllers		Network	
Supported storage drive types	HDD & SSD	Ethernet LAN	✓
Supported storage drive interfaces *	M.2, SATA	Ethernet interface type	2.5 Gigabit Ethernet
RAID support	✓	Features	
RAID levels	0, 1, 5, 10	Motherboard chipset *	Intel Z690
Graphics		Audio output channels *	7.1 channels
Parallel processing technology support *	Not supported	Component for *	PC
Internal I/O		Motherboard form factor *	ATX
USB 2.0 connectors *	2	Motherboard chipset family *	Intel
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Windows operating systems supported	Windows 10, Windows 11
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Expansion slots	
		PCI Express x1 (Gen 3.x) slots	1

Internal I/O		Expansion slots	
Number of SATA III connectors *	4	PCI Express x16 (Gen 3.x) slots	2
Front panel audio connector	✓	PCI Express x16 (Gen 4.x) slots	1
ATX Power connector (24-pin)	✓	Number of M.2 (M) slots	3
Power fan connector	✓	BIOS	
CPU fan connector	✓	BIOS type *	UEFI AMI
Number of chassis fan connectors	4	BIOS memory size	192 Mbit
Peripheral (Molex) power connectors (4-pin)	1	Logistics data	
EPS power connector (8-pin)	✓	Harmonized System (HS) code	84733020
Number of COM connectors	1	Weight & dimensions	
TPM connector	✓	Width	305 mm
Thunderbolt headers	1	Depth	234 mm
12V power connector	✓	Packaging content	
RGB LED pin header	✓	Cables included	SATA
Rear panel I/O ports		Drivers included	✓
USB 2.0 ports quantity *	2	Other features	
		Weight	1.02 kg
		Packaging content	2 x SATA 6Gb/s cables 1 x I/O Shield 1 x M.2 Rubber Package 2 x M.2 SSD screw packages 1 x Support DVD 1 x User guide



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