ASUS PRIME Z690M-PLUS D4 Intel Z690 LGA 1700 micro ATX

Brand : ASUS

Product code: 90MB18Q0-M0EAY0

Product name : PRIME Z690M-PLUS D4

- Intel® LGA 1700 socket: Ready for 12th gen Intel® processors
- Enhanced power solution: 10+1 DrMOS, 4-pin+8-pin ProCool connector, alloy chokes and durable capacitors for stable power delivery
- Comprehensive cooling: Large VRM heatsinks, 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: DDR4, PCIe® 5.0, Intel® 1 Gb Ethernet, USB 3.2 Gen 2x2 Type-C®, front panel USB 3.2 Gen 1 Type-C®, Thunderbolt™ 4 header

Intel® Z690 (LGA 1700) mATX motherboard with PCIe® 5.0, three M.2 slots, 10+1 DrMOS, DDR4, HDMI®, DisplayPort™, Intel® 1 Gb Ethernet, USB 3.2 Gen 2x2 Type-C®, front USB 3.2 Gen 1 Type-C®, Thunderbolt™ 4 header and Aura Sync RGB lighting

Processor

Processor manufacturer *	Intel
Processor socket *	LGA 1700
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel Pentium G

Memory

Supported memory types *	DDR4-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	Non-ECC
Supported memory clock speeds	2133,2400,2666,2800,2933,3000,3200,3333,3400,3466,3600,3733,3866,4000,4133,4266,4400,4600,4800,5000,5133,5333 MHz
Maximum internal memory *	128 GB
Unbuffered memory	✔

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA
RAID support	✔
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support *	Not supported

Internal I/O

USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1
Number of SATA III connectors *	4
Front panel audio connector	✔
ATX Power connector (24-pin)	✔
Power fan connector	✔

Rear panel I/O ports

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
USB 3.2 Gen 2x2 Type-C ports quantity	1
Ethernet LAN (RJ-45) ports *	1
HDMI ports quantity *	1
HDMI version	2.1
DisplayPorts quantity	1
DisplayPort version	1.4
Headphone outputs	1
Microphone in	✔
S/PDIF out port	✔

Network

Ethernet LAN	✔
Ethernet interface type	Gigabit Ethernet
Wi-Fi *	✘
Bluetooth	✘

Features

Motherboard chipset *	Intel Z690
Audio output channels *	7.1 channels
Component for *	PC
Motherboard form factor *	micro ATX
Motherboard chipset family *	Intel
Windows operating systems supported	Windows 10, Windows 11

Internal I/O	
CPU fan connector	✔
Number of chassis fan connectors	3
Peripheral (Molex) power connectors (4-pin)	1
EPS power connector (8-pin)	✔
Number of COM connectors	1
TPM connector	✔
Thunderbolt headers	1
12V power connector	✔
RGB LED pin header	✔

Rear panel I/O ports	
USB 2.0 ports quantity *	2

Expansion slots	
PCI Express x1 (Gen 3.x) slots	2
PCI Express x16 (Gen 3.x) slots	1
Number of M.2 (M) slots	3

BIOS	
BIOS type *	UEFI AMI
BIOS memory size	192 Mbit

Logistics data	
Harmonized System (HS) code	84733020

Weight & dimensions	
Width	244 mm
Depth	244 mm
Height	68 mm

Packaging content	
Cables included	SATA
Drivers included	✔

Other features	
Weight	825 g

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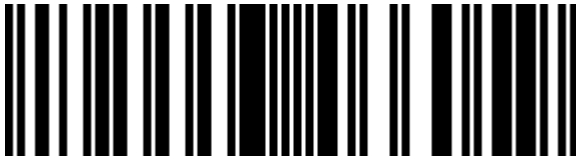

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