

## ASUS PRIME Z590M-PLUS Intel Z590 LGA 1200 micro ATX

**Brand :** ASUS

**Product code:** 90MB1690-M0EAY0

**Product name :** PRIME Z590M-PLUS

- Intel® LGA 1200 socket: Ready for 11th and 10th gen Intel® Core™ processors
  - Enhanced power solution: 8+1 DrMOS power stages, six-layer PCB, 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: PCIe® 4.0, Intel® 1 Gb Ethernet , USB 3.2 Gen 2x2 Type-C®, Thunderbolt™ 4 header support
- mATX, Intel Z590 chipset, Socket LGA1200, 4xDDR4 DIMM slots, 7.1ch audio, Gigabit LAN, RGB



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
Processor socket *	LGA 1200	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel Pentium G	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	LGA 1200 (Socket H5)	HDMI ports quantity *	1
<b>Memory</b>		HDMI version	1.4/2.0
Supported memory types *	DDR4-SDRAM	DVI-D ports quantity *	1
Number of memory slots *	4	DisplayPorts quantity	1
Memory slots type	DIMM	DisplayPort version	1.4
Memory channels	Dual-channel	Headphone outputs	3
Non-ECC	✓	Microphone in	✓
Supported memory clock speeds	5133, 2133, 2400, 2666, 2800, 2933, 3000, 3200, 3333, 3400, 3466, 3600, 3733, 3866, 4000, 4133, 4266, 4400, 4500, 4600, 4700, 4800, 5000	USB connector type	USB Type-A, USB Type-C
MHz	✓	<b>Network</b>	
Maximum internal memory *	128 GB	Ethernet LAN	✓
Unbuffered memory	✓	Ethernet interface type	Gigabit Ethernet
<b>Storage controllers</b>		LAN controller	Intel® I219-V
Supported storage drive types	HDD & SSD	Wake-on-LAN ready	✓
Supported storage drive interfaces *	M.2, SATA III	Wi-Fi *	✗
Number of storage drives supported	8	<b>Features</b>	
<b>Graphics</b>		Motherboard chipset *	Intel Z590
Parallel processing technology support *	Not supported	Audio chip	Realtek ALC897
Maximum resolution	4096 x 2304 pixels	Audio output channels *	7.1 channels
<b>Internal I/O</b>		Component for *	PC
USB 2.0 connectors *	2	Motherboard form factor *	micro ATX
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Motherboard chipset family *	Intel
Number of SATA III connectors *	5	Windows operating systems supported	Windows 10 x64
S/PDIF out connector	✓	Harmonized System (HS) code	84733020
Front panel audio connector	✓	<b>Expansion slots</b>	
ATX Power connector (24-pin)	✓	PCI Express x1 (Gen 3.x) slots	2
CPU fan connector	✓	PCI Express x16 (Gen 3.x) slots	1
Number of chassis fan connectors	2		
EPS power connector (8-pin)	✓		
Number of COM connectors	1		
TPM connector	✓		
Thunderbolt headers	1		

Internal I/O		Expansion slots	
12V power connector	✓	PCI Express x16 (Gen 4.x) slots	1
RGB LED pin header	✓	Number of M.2 (M) slots	3
Rear panel I/O ports		BIOS	
USB 2.0 ports quantity *	4	BIOS type *	UEFI AMI
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	BIOS memory size	192 Mbit
		Clear CMOS jumper	✓
		Weight & dimensions	
		Width	244 mm
		Depth	244 mm
		Packaging content	
		Cables included	SATA
		Drivers included	✓



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