

## GIGABYTE Z590 GAMING X motherboard Intel Z590 LGA 1200 (Socket H5) ATX

**Brand :** GIGABYTE

**Product code:** Z590 GAMING X

**Product name :** Z590 GAMING X

- Supports 11th and 10th Gen Intel® Core™ Series Processors
  - Dual Channel Non-ECC Unbuffered DDR4, 4 DIMMs
  - Direct 12+1 Phases Digital VRM Solution with 60A DrMOS
  - Shielded Memory Routing for Better Memory Overclocking
  - Fully Covered Thermal Design with High Coverage MOSFET Heatsinks
  - Fast 2.5GbE LAN with Bandwidth Management
  - Triple Ultra-Fast NVMe PCIe 4.0\*/3.0 x4 M.2 with Thermal Guards
  - Rear USB 3.2 Gen2 Type-C® and Front USB3.2 Gen1 Type-C® for Connecting Devices
  - Pre-installed IO Shield for Easy and Quick Installation
  - RGB FUSION 2.0 with Multi-Zone Addressable LED Light Show Design, Support Addressable LED & RGB LED Strips
- ATX, Intel Z590 Express chipset, Socket LGA 1200, 4xDDR4 DIMM slots, 7.1ch audio, 2.5-Gigabit LAN, RGB



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 2.0 ports quantity *	2
Processor socket *	LGA 1200 (Socket H5)	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	5
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium®	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
Supported processor sockets	LGA 1200 (Socket H5)	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Memory		Ethernet LAN (RJ-45) ports *	1
Supported memory types *	DDR4-SDRAM	PS/2 ports quantity	1
Number of memory slots *	4	DisplayPorts quantity	1
Memory slots type	DIMM	DisplayPort version	1.2
Memory channels	Dual-channel	Headphone outputs	6
ECC compatibility	ECC & Non-ECC	Microphone in	✓
Supported memory clock speeds	2133,2400,2666,2933,3000,3200 MHz	USB connector type	USB Type-A, USB Type-C
Maximum internal memory *	128 GB	Network	
Unbuffered memory	✓	Ethernet LAN	✓
Storage controllers		Ethernet interface type	2.5 Gigabit Ethernet
Supported storage drive types	HDD & SSD	Wi-Fi *	✗
Supported storage drive interfaces *	M.2, SATA III	Features	
Number of storage drives supported	9	Motherboard chipset *	Intel Z590
RAID levels	0, 1, 5, 10	Audio output channels *	7.1 channels
Graphics		PC health monitoring	Fan, Temperature, Voltage
Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX	Component for *	PC
Maximum resolution	4096 x 2304 pixels	Motherboard form factor *	ATX
HDCP	✓	Motherboard chipset family *	Intel
Internal I/O		Windows operating systems supported	Windows 10 x64
USB 2.0 connectors *	2	Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	PCI Express x1 slots	1
		PCI Express x16 slots	2

Internal I/O		Expansion slots	
Number of SATA III connectors *	6	Number of M.2 (M) slots	3
S/DPDIF out connector	✓	<b>BIOS</b>	
Front panel audio connector	✓	BIOS type *	UEFI AMI
Front panel connector	✓	BIOS memory size	256 Mbit
ATX Power connector (24-pin)	✓	ACPI version	5.0
Power fan connector	✓	Clear CMOS jumper	✓
CPU fan connector	✓	Desktop Management Interface (DMI) version	2.7
Peripheral (Molex) power connectors (4-pin)	4	System Management BIOS (SMBIOS) version	2.7
EPS power connector (8-pin)	✓	<b>Logistics data</b>	
TPM connector	✓	Harmonized System (HS) code	84733020
Serial port headers	1	<b>Weight &amp; dimensions</b>	
Thunderbolt headers	2	Width	305 mm
12V power connector	✓	Depth	244 mm
RGB LED pin header	✓	<b>Packaging content</b>	
		Drivers included	✓
		Bundled software	Norton Internet Security, Realtek 8125 Gaming LAN Bandwidth Control Utility



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