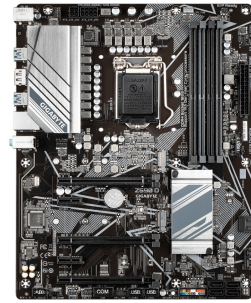GIGABYTE

Gigabyte Z590 D motherboard Intel Z590 LGA 1200 ATX

Brand : Gigabyte   **Product code:** Z590 D

Product name : Z590 D

- 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 Low RDS(on) MOSFETs
- Shielded Memory Routing for Better Memory Overclocking
- Enlarged VRM Heatsink with Multi-Cut to increased surface contact
- Dual Ultra-Fast NVMe PCIe 4.0/3.0 x4 M.2
- GIGABYTE Exclusive 8118 Gaming LAN with Bandwidth Management
- RGB FUSION 2.0 Supports Addressable LED & RGB LED Strips
- Smart Fan 6 Features Multiple Temperature Sensors , Hybrid Fan Headers with FAN STOP
- Q-Flash Plus Update BIOS without Installing the CPU, Memory and Graphics Card
ATX, Intel Z590 Express chipset, Socket LGA 1200, 4xDDR4 DIMM slots, 7.1ch audio, Gigabit LAN, AMI UEFI BIOS

Processor

Processor manufacturer *	Intel
Processor socket *	LGA 1200
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium®
Supported processor sockets	LGA 1200 (Socket H5)

Memory

Supported memory types *	DDR4-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	
Non-ECC	✓
Supported memory clock speeds	2133,2400,2666,2800,2933,3000,3200,3300,3333,3400,3466,3600,3666,3733,3800,3866,4000,4133,4266,4300,4400,4500,4600,4700,4800,4933,5000,5133,5333 MHz
Maximum internal memory *	128 GB
Unbuffered memory	✓

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA III
Number of storage drives supported	8
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX
Maximum resolution	4096 x 2304 pixels
HDCP	✓

Internal I/O

USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1
Number of SATA III connectors *	6
S/PDIF out connector	✓
Front panel audio connector	✓
Front panel connector	✓
ATX Power connector (24-pin)	✓
CPU fan connector	✓
Number of chassis fan connectors	3
EPS power connector (8-pin)	✓

Internal I/O

12V power connector	✓
RGB LED pin header	✓

Rear panel I/O ports

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	6
Ethernet LAN (RJ-45) ports *	1
PS/2 ports quantity	2
DisplayPorts quantity	1
DisplayPort version	1.2
Headphone outputs	3
Microphone in	✓
USB connector type	USB Type-A

Network

Ethernet LAN	✓
Ethernet interface type	Gigabit Ethernet
Wi-Fi *	✗

Features

Motherboard chipset *	Intel Z590
Audio output channels *	7.1 channels
PC health monitoring	Fan, Temperature, Voltage
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	Intel
Windows operating systems supported	Windows 10 x64
Harmonized System (HS) code	84733020

Expansion slots

PCI Express x1 slots	2
PCI Express x16 slots	3
Number of M.2 (M) slots	2

Internal I/O		
TPM connector	✓	
Serial port headers	1	
Thunderbolt headers	2	

BIOS	
BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✓
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Weight & dimensions	
Width	305 mm
Depth	244 mm

Packaging content	
Bundled software	Norton Internet Security, Realtek 8118 Gaming LAN Bandwidth Control Utility

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