

GIGABYTE Z590 VISION D motherboard Intel Z590 LGA 1200 (Socket H5) ATX

Brand : GIGABYTE

Product code: Z590 VISION D

Product name : Z590 VISION D

- Powerful performance support 11th and 10th Gen Intel® Core™ Series Processors
 - Dual Channel Non-ECC Unbuffered DDR4 memory, 4 DIMMs
 - Go further without more cables by VisionLINK TB I/O design
 - The limitless connectivity by Thunderbolt™ 4
 - High-bandwidth and low-latency network support by dual Intel® 2.5GbE LAN
 - Intel® Wi-Fi 6 2x2 802.11ax with all new antenna support for better signal
 - SuperSpeed USB 3.2 Gen2x2 Type-C® Header
 - Triple Ultra-Fast NVMe PCIe x4 M.2 connectors with unique thermal guards
 - Comprehensive cooling solution design for the better thermal dissipation
 - Smart Fan 6 features hybrid fan headers and numerous temperature sensors for fan mode configuration
- ATX, Intel Z590 Express chipset, Socket LGA1200, 4xDDR4 DIMM slots, 7.1ch audio, 2.5-Gigabit LAN, Wi-Fi, Bluetooth



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Processor socket *	LGA 1200 (Socket H5)	Ethernet LAN (RJ-45) ports *	2
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium®	HDMI ports quantity *	1
Supported processor sockets	LGA 1200 (Socket H5)	DisplayPorts quantity	1
Memory		Headphone outputs	5
Supported memory types *	DDR4-SDRAM	Microphone in	✓
Number of memory slots *	4	S/PDIF out port	✓
Memory slots type	DIMM	Thunderbolt ports quantity	2
Memory channels	Dual-channel	WiFi-AP antenna jack	2
ECC compatibility	ECC & Non-ECC	USB connector type	USB Type-A, USB Type-C
Supported memory clock speeds	2133,2400,2666,2933,3000,3200 MHz	Network	
Maximum internal memory *	128 GB	Ethernet LAN	✓
Unbuffered memory	✓	Ethernet interface type	2.5 Gigabit Ethernet
Storage controllers		Wi-Fi *	✓
Supported storage drive types	HDD & SSD	Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Supported storage drive interfaces *	M.2, SATA III	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Number of storage drives supported	9	WLAN controller model	Intel Wi-Fi 6 AX200
RAID levels	0, 1, 5, 10	Bluetooth	✓
Graphics		Bluetooth version	5.1
Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX	Features	
Maximum resolution	5120 x 2880 pixels	Motherboard chipset *	Intel Z590
HDCP	✓	Audio chip	Realtek ALC4080
Internal I/O		Audio output channels *	7.1 channels
USB 2.0 connectors *	2	PC health monitoring	Fan, Temperature, Voltage
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Component for *	PC
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Motherboard form factor *	ATX
		Motherboard chipset family *	Intel
		Windows operating systems supported	Windows 10 x64

Internal I/O		Expansion slots	
Number of SATA III connectors *	6	PCI Express x1 slots	1
Front panel audio connector	✓	PCI Express x16 slots	3
Front panel connector	✓	Number of M.2 (M) slots	3
ATX Power connector (24-pin)	✓	BIOS	
Power fan connector	✓	BIOS type *	UEFI AMI
CPU fan connector	✓	BIOS memory size	256 Mbit
Peripheral (Molex) power connectors (4-pin)	1	ACPI version	5.0
EPS power connector (8-pin)	✓	Clear CMOS jumper	✓
TPM connector	✓	Desktop Management Interface (DMI) version	2.7
12V power connector	✓	System Management BIOS (SMBIOS) version	2.7
RGB LED pin header	✓	Logistics data	
Rear panel I/O ports		Harmonized System (HS) code	84733020
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Weight & dimensions	
		Width	305 mm
		Depth	244 mm
		Packaging content	
		Drivers included	✓
		Bundled software	Norton Internet Security, cFosSpeed



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