

## Gigabyte Z590 AORUS TACHYON motherboard Intel Z590 LGA 1200 Extended ATX

**Brand :** Gigabyte

**Product code:** Z590 AORUS TACHYON

**Product name :** Z590 AORUS TACHYON

- Supports 11th and 10th Gen Intel® Core™ Series Processors
  - Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs
  - 12+1 Phases Digital VRM Solution with 100A DrMOS and Tantalum Polymer Capacitors Matrix
  - XTREME MEMORY with 2-DIMM Design and Shielded Memory Routing
  - Exclusive onboard Overclocking Kit for extreme overclocking
  - Onboard Intel® WiFi 6E 802.11ax 2T2R & BT 5 with AORUS Antenna
  - Amp-Up Audio with ALC1220 and WIMA Audio Capacitors
  - Blazing Fast Intel® 2.5GbE LAN with cFosSpeed
  - Triple Ultra-Fast NVMe PCIe 4.0/3.0 x4 M.2 with Thermal Guards
  - SuperSpeed USB 3.2 Gen2x2 TYPE-C® delivers up to 20Gb/s transfer speeds
- E-ATX, Intel Z590 Express chipset, Socket LGA 1200, 2xDDR4 DIMM slots, 7.1ch audio, 2.5-Gigabit LAN, Wi-Fi 6E, Bluetooth, AMI UEFI BIOS, DualBIOS



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
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®	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	LGA 1200 (Socket H5)	PS/2 ports quantity	2
Memory		HDMI ports quantity *	1
Supported memory types *	DDR4-SDRAM	HDMI version	2.0
Number of memory slots *	2	Headphone outputs	5
Memory slots type	DIMM	S/PDIF out port	✓
Memory channels	Dual-channel	WiFi-AP antenna jack	2
ECC	✓	USB connector type	USB Type-A, USB Type-C
Non-ECC	✓	Network	
Supported memory clock speeds	2133,2400,2666,2933,3000,3200 MHz	Ethernet LAN	✓
Maximum internal memory *	64 GB	Ethernet interface type	2.5 Gigabit Ethernet
Unbuffered memory	✓	Wi-Fi *	✓
Storage controllers		Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Supported storage drive types	HDD & SSD	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)
Supported storage drive interfaces *	M.2, SATA III	WLAN controller model	Intel Wi-Fi 6E AX210
Number of storage drives supported	11	Bluetooth	✓
RAID levels	0, 1, 5, 10	Bluetooth version	5.2
Graphics		Features	
Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX	Motherboard chipset *	Intel Z590
Maximum resolution	4096 x 2160 pixels	Audio chip	Realtek ALC1220-VB
HDCP	✓	Audio output channels *	7.1 channels
Internal I/O		PC health monitoring	Fan, Temperature, Voltage
USB 2.0 connectors *	2	Component for *	PC
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Motherboard form factor *	Extended ATX
		Motherboard chipset family *	Intel
		Windows operating systems supported	Windows 10 x64

Internal I/O		Expansion slots	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	2	PCI Express x16 slots	4
Number of SATA III connectors *	8	Number of M.2 (M) slots	3
Front panel audio connector	✓	<b>BIOS</b>	
Front panel connector	✓	BIOS type *	UEFI AMI
ATX Power connector (24-pin)	✓	BIOS memory size	512 Mbit
CPU fan connector	✓	ACPI version	5.0
Number of chassis fan connectors	4	Clear CMOS jumper	✓
EPS power connector (8-pin)	✓	Clear CMOS button	✓
Thunderbolt headers	2	Desktop Management Interface (DMI) version	2.7
12V power connector	✓	System Management BIOS (SMBIOS) version	2.7
RGB LED pin header	✓	<b>Weight &amp; dimensions</b>	
<b>Rear panel I/O ports</b>		Width	305 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Depth	270 mm
		<b>Packaging content</b>	
		Bundled software	Norton Internet Security, cFosSpeed



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