GIGABYTE

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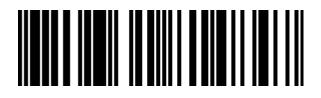
Processor	
Processor manufacturer *	Intel
Processor socket *	LGA 1200
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium®
Supported processor sockets	LGA 1200 (Socket H5)

Memory	
Supported memory types *	DDR4-SDRAM
Number of memory slots *	2
Memory slots type	DIMM
Memory channels	Dual-channel
ECC	✓
Non-ECC	✓
Supported memory clock speeds	2133,2400,2666,2933,3000,3200 MHz
Maximum internal memory *	64 GB
Unbuffered memory	✓

Storage controllers	
Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA III
Number of storage drives supported	11
RAID levels	0, 1, 5, 10

Graphics	
Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX
Maximum resolution	4096 x 2160 pixels
HDCP	✓

Internal I/O	
USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1

Rear panel I/O ports	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports *	1
PS/2 ports quantity	2
HDMI ports quantity *	1
HDMI version	2.0
Headphone outputs	5
S/PDIF out port	✓
WiFi-AP antenna jack	2
USB connector type	USB Type-A, USB Type-C

Network	
Ethernet LAN	✓
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✓
Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)
WLAN controller model	Intel Wi-Fi 6E AX210
Bluetooth	✓
Bluetooth version	5.2

Features	
Motherboard chipset *	Intel Z590
Audio chip	Realtek ALC1220-VB
Audio output channels *	7.1 channels
PC health monitoring	Fan, Temperature, Voltage
Component for *	PC
Motherboard form factor *	Extended ATX
Motherboard chipset family *	Intel
Windows operating systems supported	Windows 10 x64

Internal I/O

USB 3.2 Gen 2 (3.1 Gen 2) connectors *	2
Number of SATA III connectors *	8
Front panel audio connector	✓
Front panel connector	✓
ATX Power connector (24-pin)	✓
CPU fan connector	✓
Number of chassis fan connectors	4
EPS power connector (8-pin)	✓
Thunderbolt headers	2
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 *	4

Expansion slots

PCI Express x16 slots	4
Number of M.2 (M) slots	3

BIOS

BIOS type *	UEFI AMI
BIOS memory size	512 Mbit
ACPI version	5.0
Clear CMOS jumper	✓
Clear CMOS button	✓
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Weight & dimensions

Width	305 mm
Depth	270 mm

Packaging content

Bundled software	Norton Internet Security, cFosSpeed

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