

# Gigabyte Z790 AORUS PRO X motherboard Intel Z790 LGA 1700 ATX



**Brand :** Gigabyte

**Product code:** Z790 AORUS PRO X

**Product name :** Z790 AORUS PRO X

- Supports Intel® Core™ 13th and next-gen processors
  - Digital twin 18+1+2 phases VRM solution
  - Dual Channel DDR5 4\*DIMMs with XMP 3.0 memory module support
  - PCIe UD Slot X PCIe 5.0 x16 slot with 10X strength for graphics card
  - EZ-Latch Click M.2 heatsinks with screwless design
  - EZ-Latch Plus M.2 slots with quick release design
  - Sensor Panel Link Onboard video port for hassle-free in-chassis panel setup
  - UC BIOS User-Centred intuitive UX with Quick Access function
  - Ultra-Fast Storage 5\*M.2 slots, including 1\* PCIe 5.0 x4
  - Efficient Overall Thermal VRM Thermal Armor Advanced & M.2 Thermal Guard XL
  - Fast Networking 5GbE LAN & Wi-Fi 7 with Ultra-high gain antenna
  - Extended Connectivity HDMI, DP IN, Front & Rear USB-C® 20Gb/s
  - High-Res Audio ALC1220 & Audiophile Grade Capacitors
- Intel Z790, 4 x DDR5, 8266 MHz, Wi-Fi 7, 1 x RJ-45, 1 x HDMI, ATX, Bluetooth 5.3

Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	10
Processor socket *	LGA 1700	USB 3.2 Gen 2x2 Type-C ports quantity	1
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	LGA 1700	HDMI ports quantity *	1
		HDMI version	2.0
		DisplayPorts quantity	1
		DisplayPort version	1.2
		Headphone outputs	2
		Microphone in	✓
		S/PDIF out port	✓
		Thunderbolt ports quantity	2
Memory		Network	
Supported memory types *	DDR5-SDRAM	Ethernet LAN	✓
Number of memory slots *	4	Ethernet interface type	2.5 Gigabit Ethernet
Memory slots type	DIMM	Wi-Fi *	✓
Memory channels	Dual-channel	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
ECC	✓		802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
Non-ECC	✓	Wi-Fi standards	
Supported memory clock speeds	8000, 7950, 7900, 7800, 7600, 7400, 7200, 7000, 6800, 6600, 6400, 6200, 6000, 5800, 5600, 5400, 5200, 4800, 4000 MHz	Bluetooth	✓
Supported memory clock speed (max)	8266 MHz	Bluetooth version	5.3
Maximum internal memory *	192 GB	Features	
Unbuffered memory	✓	Motherboard chipset *	Intel Z790
		Audio output channels *	7.1 channels
Storage controllers		PC health monitoring	Fan, Temperature, Voltage, Water cooling
Supported storage drive types	HDD & SSD	Component for *	PC
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	Motherboard form factor *	ATX
Number of storage drives supported	10	Motherboard chipset family *	Intel
RAID support	✓	Windows operating systems supported	Windows 10 x64, Windows 11 x64
RAID levels	0, 1, 5, 10	Expansion slots	
Graphics		PCI Express x16 slots	3
Parallel processing technology support *	Crossfire	Number of M.2 (M) slots	5
Maximum resolution	4096 x 2304 pixels		
HDCP	✓		
Internal I/O			
USB 2.0 connectors *	1		
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2		

Internal I/O		BIOS	
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	2	BIOS type *	UEFI AMI
Number of SATA III connectors *	4	BIOS memory size	256 Mbit
Front panel audio connector	✓	ACPI version	5.0
Front panel connector	✓	Clear CMOS jumper	✓
ATX Power connector (24-pin)	✓	Clear CMOS button	✓
CPU fan connector	✓	Desktop Management Interface (DMI) version	2.7
EPS power connector (8-pin)	✓	System Management BIOS (SMBIOS) version	2.7
TPM connector	✓	<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>	
		Cables included	SATA
		Bundled software	Norton Internet Security LAN bandwidth management software



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