

## Gigabyte B650 AORUS PRO AX Motherboard - Supports AMD Ryzen 8000 CPUs, 16\*+2+1 Phases Digital VRM, up to 8000MHz DDR5 (OC), 1xPCIe 5.0 + 2xPCIe 4.0 M.2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2



**Brand :** Gigabyte

**Product code:** B650 AORUS PRO AX

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ATX, Socket AM5, AMD B650 chipset, 4x DDR5 DIMM, Wi-Fi 6E, AMI UEFI BIOS

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### UNPARALLELED PERFORMANCE

With the fast-moving technology changes, GIGABYTE always follows the latest trends and provides customers with advanced features and latest technologies. GIGABYTE motherboards are equipped with upgraded power solution, latest storage standards and outstanding connectivity to enable optimized performance for gaming.



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	HDMI version	2.1
Processor socket *	Socket AM5	Headphone outputs	2
Compatible processor series *	AMD Ryzen™ 5, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen	Microphone in	✓
Supported processor sockets	Socket AM5	S/PDIF out port	✓
Maximum internal memory supported by processor	192 GB	Wi-Fi-AP antenna jack	2
<b>Memory</b>		USB connector type	USB Type-A, USB Type-C
Supported memory types *	DDR5-SDRAM	<b>Network</b>	
Number of memory slots *	4	Ethernet LAN	✓
Memory slots type	DIMM	Ethernet interface type	2.5 Gigabit Ethernet
Memory channels	Dual-channel	Wi-Fi *	✓
Non-ECC	✓	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Supported memory clock speeds	4400,4800,5200,5600,6000,6200,6400,6600,6666,6800,7000,7200,7600,7800,8000 MHz	Wi-Fi standards	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)
Supported memory clock speed (max)	8000 MHz	WLAN controller model	AMD RZ616
Maximum internal memory *	192 GB	Bluetooth	✓
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB	Bluetooth version	5.2
Unbuffered memory	✓	<b>Features</b>	
<b>Storage controllers</b>		Motherboard chipset *	AMD B650
Supported storage drive types	HDD & SSD	Audio chip	Realtek ALC1220-VB
Supported storage drive interfaces *	M.2, PCI Express 4.0, PCI Express 5.0, SATA III	Audio output channels *	7.1 channels
Number of HDDs supported	4	Product colour	Black
Number of storage drives supported	7	PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
RAID support	✓	Component for *	PC
RAID levels	0, 1, 10	Motherboard form factor *	ATX
<b>Graphics</b>		Motherboard chipset family *	AMD
Parallel processing technology support *	Crossfire	Power source type	ATX
Maximum resolution	4096 x 2160 pixels	Windows operating systems supported	Windows 10 x64, Windows 11 x64
HDCP	✓	<b>Expansion slots</b>	
DirectX version	12.0	PCI Express x1 slots	1
<b>Internal I/O</b>			
USB 2.0 connectors *	2		

Internal I/O		Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	PCI Express x16 slots	2
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Number of M.2 (M) slots	3
Number of SATA III connectors *	4	<b>BIOS</b>	
Front panel audio connector	✓	BIOS type *	UEFI AMI
Front panel connector	✓	BIOS memory size	256 Mbit
ATX Power connector (24-pin)	✓	ACPI version	5.0
CPU fan connector	✓	Clear CMOS jumper	✓
EPS power connector (8-pin)	✓	Desktop Management Interface (DMI) version	2.7
TPM connector	✓	System Management BIOS (SMBIOS) version	2.7
Serial port headers	1	<b>Logistics data</b>	
Thunderbolt headers	1	Country of origin	Taiwan
12V power connector	✓	Products per shipping (inner) case	1 pc(s)
RGB LED pin header	✓	<b>Battery</b>	
<b>Rear panel I/O ports</b>		Battery weight	3 g
USB 2.0 ports quantity *	4	Lithium weight per battery	0.07 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Number of battery cells	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3	Battery type	CR2032
Ethernet LAN (RJ-45) ports *	1	<b>Packaging data</b>	
HDMI ports quantity *	1	Package width	335 mm
		Package depth	270 mm
		Package height	80 mm
		Package weight	2.53 kg
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	244 mm
		Height	35 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Batteries included	✓
		Bundled software	Norton Internet Security
		<b>Technical details</b>	
		Warranty period	3 year(s)



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