

Gigabyte B650E AORUS MASTER Motherboard - Supports AMD AM5 CPUs, 16+2+2 Digital VRM, up to 8000MHz DDR5 (OC), 4xPCIe 5.0 M2, Wi-Fi 6E, 2.5GbE LAN, USB 3.2 Gen 2

Brand : Gigabyte

Product code: B650E AORUS MASTER

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- Ready for AMD Ryzen 7000 Series Processors
 - Twin 16+2+2 Phases Digital VRM Solution
 - Full support up to DDR5-8000
 - 4*PCIe 5.0 x4 M.2 Connectors
 - Mega-Heatpipe & M.2 Thermal Guard III
 - EZ-Latch Plus: M.2 Connectors with Quick Release & Screwless Design
- AMD Socket AM5, AMD B650, 4 x DDR5 DIMM, HDMI, 2.5GbE LAN, Wi-Fi 6E RZ616, Bluetooth 5.2, ATX, 305 x 244mm

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Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content creator, or professional, our series cater to your needs, ensuring uncompromising quality and cutting-edge technology.

Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	WiFi-AP antenna jack	2
Processor socket *	Socket AM5	USB connector type	USB Type-A, USB Type-C
Compatible processor series *	AMD Ryzen™ 7	Network	
Maximum number of SMP processors	1	Ethernet LAN	✓
Supported processor sockets	Socket AM5	Ethernet interface type	2.5 Gigabit Ethernet
Memory		Wi-Fi *	✓
Supported memory types *	DDR5-SDRAM	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Number of memory slots *	4	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Memory slots type	DIMM	WLAN controller model	AMD RZ616
Memory channels	Dual-channel	Bluetooth	✓
Non-ECC	✓	Bluetooth version	5.2
Supported memory clock speeds	4400,4800,5200,5600,6000,6200,6400,6600,6666,6800,7000,7200,7600,7800,8000 MHz	Features	
Maximum internal memory *	192 GB	Motherboard chipset *	AMD B650
Unbuffered memory	✓	Audio chip	Realtek ALC1220-VB
Storage controllers		Audio output channels *	7.1 channels
Supported storage drive types	HDD & SSD	Product colour	Black
Supported storage drive interfaces *	M.2, SATA III	PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
Number of HDDs supported	4	Component for *	PC
Number of storage drives supported	8	Motherboard form factor *	ATX
RAID support	✓	Motherboard chipset family *	AMD
RAID levels	0, 1, 10	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Graphics		Expansion slots	
Parallel processing technology support *	Not supported	PCI Express x16 (Gen 4.x) slots	2
Maximum resolution	7680 x 4320 pixels	PCI Express x16 (Gen 5.x) slots	1
HDCP	✓	Number of M.2 (M) slots	4
DirectX version	12.0	Internal I/O	
Discrete graphics support	✓	USB 2.0 connectors *	2
Internal I/O		USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1

Internal I/O		BIOS	
USB 3.2 Gen 2x2 connectors	1	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	✓
Number of EATX power connectors	2	Desktop Management Interface (DMI) version	2.7
CPU fan connector	✓	System Management BIOS (SMBIOS) version	2.7
Number of chassis fan connectors	8	Logistics data	
12V power connector	✓	Country of origin	Taiwan
RGB LED pin header	✓	Products per shipping (inner) case	1 pc(s)
Rear panel I/O ports		Battery	
USB 2.0 ports quantity *	4	Battery weight	3 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Lithium weight per battery	0.07 g
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	4	Number of battery cells	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Ethernet LAN (RJ-45) ports *	1	Battery type	CR2032
HDMI ports quantity *	1	Packaging data	
HDMI version	2.1	Package width	345 mm
Headphone outputs	1	Package depth	294 mm
Microphone in	✓	Package height	80 mm
S/PDIF out port	✓	Package weight	2.88 kg
Digital audio optical out	1	Weight & dimensions	
		Width	305 mm
		Depth	244 mm
		Height	35 mm
		Packaging content	
		Cables included	SATA
		Batteries included	✓
		Antenna included	✓
		Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software
		Technical details	
		Warranty period	3 year(s)



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