GIGABYTE

Gigabyte B650M GAMING X AX (rev. 1.x) AMD B650 Socket AM5 micro ATX

Brand : Gigabyte

Product name : B650M GAMING X AX (rev. 1.x)

Product code: B650M GAMING X AX (REV. 1.x)

- AMD Socket AM5⬚Supports AMD Ryzen™ 7000 Series Processors
- Unparalleled Performance⬚Direct 6+2+1 Phases Digital VRM Solution
- Dual Channel DDR5⬚4*SMD DIMMs with AMD EXPO™ & Intel® XMP Memory Module Support
- SuperSpeed Storage⬚2*PCIe 4.0 x4 M.2 Connectors
- Advanced Thermal Design & M.2 Thermal Guard⬚To Ensure VRM Power Stability & 25110 M.2 SSD Performance
- EZ-Latch⬚PCIe x16 Slot & M.2 Connectors with Quick Release & Screwless Design
- Fast Networks⬚2.5GbE LAN & Wi-Fi 6E 802.11ax
- Extended Connectivity⬚2*DP, HDMI, 2*USB-C® 10Gb/s
- Smart Fan 6⬚Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
- Q-Flash Plus⬚Update BIOS Without Installing the CPU, Memory and Graphics Card
Micro ATX, Socket AM5, AMD B650 chipset, 4x DDR5 DIMM, AMI UEFI BIOS, WIFI, Bluetooth 5.3

Processor

Processor manufacturer *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen™ 5, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen
Supported processor sockets	Socket AM5

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
Non-ECC	✓
Supported memory clock speeds	4400,4800,5200,5600,6000,6200,6400 MHz
Supported memory clock speed (max)	6400 MHz
Maximum internal memory *	128 GB
Unbuffered memory	✓

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III
Number of storage drives supported	6
RAID support	✓
RAID levels	0, 1, 10

Graphics

Parallel processing technology support *	Not supported
Maximum resolution	4096 x 2160 pixels
HDCP	✓
Number of displays supported	3

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 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports *	1
PS/2 ports quantity	1
HDMI ports quantity *	1
HDMI version	2.1
DisplayPorts quantity	2
DisplayPort version	1.4
Headphone outputs	3
Microphone in	✓
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)
Bluetooth	✓
Bluetooth version	5.3

Features

Motherboard chipset *	AMD B650
Audio output channels *	7.1 channels
PC health monitoring	Fan, Temperature, Voltage
Component for *	PC
Motherboard form factor *	micro ATX
Motherboard chipset family *	AMD
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Internal I/O

USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1
Number of SATA III connectors *	4
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
EPS power connector (8-pin)	✔
TPM connector	✔
Serial port headers	1
12V power connector	✔
RGB LED pin header	✔

Rear panel I/O ports

USB 2.0 ports quantity *	4

Expansion slots

PCI Express x1 slots	1
PCI Express x16 slots	1
Number of M.2 (M) slots	2

BIOS

BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Weight & dimensions

Width	244 mm
Depth	244 mm

Packaging content

Cables included	SATA

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