

## ASUS PRIME B650M-A AX motherboard AMD B650 Socket AM5 micro ATX

**Brand :** ASUS

**Product code:** PRIME B650M-A AX

**Product name :** PRIME B650M-A AX

- AMD AM5 Socket: Ready for AMD Ryzen™ 7000 Series Desktop Processors
  - Ultrafast Connectivity: Wi-Fi 6, M.2 PCIe 5.0, Realtek 2.5Gb Ethernet, USB 3.2 Gen 2 ports, front USB 3.2 Gen 1 Type-C®
  - ASUS OptiMem II: Careful routing of traces and vias, plus ground layer optimizations to preserve signal integrity for improved memory overclocking
  - Comprehensive Cooling: VRM heatsink, PCH heatsink, hybrid fan headers and Fan Xpert 2+
  - Aura Sync RGB Lighting: Onboard Addressable Gen 2 headers and Aura RGB header for RGB LED strips, easily synced with Aura Sync-capable hardware
  - CEC Tier II ready
- mATX, AMD Socket AM5, AMD B650, 4 x DIMM, 8 x SATA 6Gb/s, Realtek 2.5Gb Ethernet, Wi-Fi 6, UEFI AMI BIOS 256 Mb



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Processor socket *	Socket AM5	Ethernet LAN (RJ-45) ports *	1
Compatible processor series *	AMD Ryzen™ 7	PS/2 ports quantity	1
Memory		VGA (D-Sub) ports quantity *	1
Supported memory types *	DDR5-SDRAM	HDMI ports quantity *	1
Number of memory slots *	4	HDMI version	2.1
Memory slots type	DIMM	DisplayPorts quantity	1
Memory channels	Dual-channel	DisplayPort version	1.4
ECC compatibility	ECC & Non-ECC	Line-in	✓
Supported memory clock speeds	4800,5000,5200,5600 MHz	Microphone in	✓
Maximum internal memory *	128 GB	WiFi-AP antenna jack	2
Unbuffered memory	✓	USB connector type	USB Type-A
Storage controllers		Network	
Supported storage drive types	HDD & SSD	Ethernet LAN	✓
Supported storage drive interfaces *	PCI Express 4.0, PCI Express 5.0, SATA III	Ethernet interface type	2.5 Gigabit Ethernet
RAID support	✓	Wi-Fi *	✓
RAID levels	0, 1, 10	Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Graphics		Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Discrete graphics support	✓	Bluetooth	✓
Internal I/O		Bluetooth version	5.2
USB 2.0 connectors *	2	Features	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Motherboard chipset *	AMD B650
Number of SATA III connectors *	8	Audio output channels *	7.1 channels
S/PDIF out connector	✓	PC health monitoring	CPU, Fan, LED, Temperature
Audio connector	✓	Component for *	PC

Internal I/O		Features	
Front panel audio connector	✓	Motherboard form factor *	micro ATX
Front panel connector	✓	Motherboard chipset family *	AMD
ATX Power connector (24-pin)	✓	Cooling type	Active
CPU fan connector	✓	Power source type	ATX
Number of chassis fan connectors	3	Windows operating systems supported	Windows 10, Windows 10 x64, Windows 11 x64
EPS power connector (8-pin)	✓	Expansion slots	
Number of COM connectors	1	PCI Express x16 (Gen 4.x) slots	4
TPM connector	✓	BIOS	
RGB LED pin header	✓	BIOS type *	UEFI AMI
Rear panel I/O ports		BIOS memory size	256 Mbit
USB 2.0 ports quantity *	4	Clear CMOS jumper	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Weight & dimensions	
		Width	244 mm
		Depth	244 mm
		Packaging content	
		Cables included	SATA



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