



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

Brand : ASUS

Product code: PRIME B650M-A AX II

Product name : PRIME B650M-A AX II

- AMD AM5 Socket: Ready for AMD Ryzen™ 7000 Series Desktop Processors
- Ultrafast Connectivity: Wi-Fi 6, M.2 PCIe 5.0, 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

AMD B650 Micro-ATX motherboard, DDR5, PCIe 5.0 M.2 support, 2.5Gb Ethernet, Wi-Fi 6, DisplayPort, VGA, HDMI®, SATA 6 Gbps, USB 3.2 Gen 2 ports, front USB 3.2 Gen 1 Type-C®, BIOS FlashBack™, Arua Sync



Processor		Internal I/O	
Processor manufacturer *	AMD	RGB LED pin header	✓
Processor socket *	Socket AM5	Rear panel I/O ports	
Compatible processor series *	AMD Ryzen™ 5, AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen	USB 2.0 ports quantity *	4
Supported processor sockets	Socket AM5	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Memory		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Supported memory types *	DDR5-SDRAM	Ethernet LAN (RJ-45) ports *	1
Number of memory slots *	4	PS/2 ports quantity	1
Memory slots type	DIMM	VGA (D-Sub) ports quantity *	1
Memory channels	Dual-channel	HDMI ports quantity *	1
ECC	✓	HDMI version	2.1
Non-ECC	✓	DisplayPorts quantity	1
Supported memory clock speeds	4800,5000,5200,5400,5600,5800,6000,6200,6400 MHz	DisplayPort version	1.4
Supported memory clock speed (max)	6400 MHz	Headphone outputs	1
Maximum internal memory *	128 GB	Line-in	✓
Unbuffered memory	✓	Microphone in	✓
Storage controllers		WiFi-AP antenna jack	1
Supported storage drive types	HDD & SSD	Network	
Supported storage drive interfaces *	M.2, SATA III	Ethernet LAN	✓
Number of HDDs supported	8	Ethernet interface type	2.5 Gigabit Ethernet
Number of storage drives supported	10	Wi-Fi *	✓
RAID support	✓	Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
RAID levels	0, 1, 10	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Graphics		Bluetooth	✓
Parallel processing technology support *	Not supported	Bluetooth version	5.2
On-board graphics card	✗	Features	
Internal I/O		Motherboard chipset *	AMD B650
USB 2.0 connectors *	2	Audio output channels *	7.1 channels
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Product colour	Multicolour
Number of SATA III connectors *	8		

Internal I/O		Features	
S/PDIF out connector	✓	Component for *	PC
Audio connector	✓	Motherboard form factor *	micro ATX
Front panel audio connector	✓	Motherboard chipset family *	AMD
ATX Power connector (24-pin)	✓	Windows operating systems supported	Windows 10 x64, Windows 11, Windows RT 8.1
CPU fan connector	✓	Expansion slots	
Number of chassis fan connectors	3	PCI Express x16 (Gen 4.x) slots	4
Number of COM connectors	1	Number of M.2 (M) slots	2
TPM connector	✓	BIOS	
12V power connector	✓	BIOS type *	UEFI AMI
		BIOS memory size	256 Mbit
		Clear CMOS button	✓
		Weight & dimensions	
		Width	244 mm
		Depth	244 mm
		Packaging content	
		Cables included	SATA



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