

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

Brand : ASUS

Product code: 90MB1EG0-M0EAY0

Product name : PRIME B650M-A WIFI II

- 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
- AMD B650 Micro-ATX motherboard, DDR5, PCIe 5.0 M.2 support, Realtek 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™, Aura Sync



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	VGA (D-Sub) ports quantity *	1
Processor socket *	Socket AM5	HDMI ports quantity *	1
Compatible processor series *	AMD Ryzen™ 7	DisplayPorts quantity	1
Memory		Headphone outputs	1
Supported memory types *	DDR5-SDRAM	Line-in	✓
Number of memory slots *	4	Microphone in	✓
Memory slots type	DIMM	USB connector type	USB Type-A
Memory channels	Dual-channel	Network	
ECC compatibility	ECC & Non-ECC	Ethernet LAN	✓
Supported memory clock speeds	4800,5000,5200,5400,5600,5800,6000,6200,6400 MHz	Ethernet interface type	2.5 Gigabit Ethernet
Maximum internal memory *	128 GB	Wi-Fi *	✓
Unbuffered memory	✓	Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Storage controllers		Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Supported storage drive types	HDD & SSD	Bluetooth	✓
Supported storage drive interfaces *	M.2, PCI Express 4.0, PCI Express 5.0, SATA	Bluetooth version	5.2
Number of HDDs supported	4	Features	
Number of storage drives supported	2	Motherboard chipset *	AMD B650
RAID support	✓	Audio output channels *	7.1 channels
RAID levels	0, 1, 10	Component for *	PC
Internal I/O		Motherboard form factor *	micro ATX
USB 2.0 connectors *	2	Motherboard chipset family *	AMD
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Power source type	ATX
Number of SATA connectors	4	Windows operating systems supported	Windows 10, Windows 11
Total number of SATA connectors	4	Expansion slots	
S/PDIF out connector	✓	PCI Express x16 (Gen 4.x) slots	3
Audio connector	✓	Number of M.2 (M) slots	2
Front panel connector	✓	BIOS	
ATX Power connector (24-pin)	✓	BIOS type *	UEFI AMI
Power fan connector	✓		
CPU fan connector	✓		

Internal I/O		BIOS	
Number of chassis fan connectors	3	BIOS memory size	256 Mbit
Peripheral (Molex) power connectors (4-pin)	4	Clear CMOS button	✓
EPS power connector (8-pin)	✓	Weight & dimensions	
Number of COM connectors	1	Width	244 mm
TPM connector	✓	Depth	244 mm
12V power connector	✓	Packaging content	
RGB LED pin header	✓	Cables included	SATA
Rear panel I/O ports		Bundled software	ASUS Exclusive Software Armoury Crate - Aura Creator - Aura Sync - Fan Xpert 2+ - Power Saving AI Suite 3 - TurboV EVO - DIGI+ VRM - PC Cleaner ASUS CPU-Z MyASUS Norton Anti-virus software (Free Trial version) WinRAR UEFI BIOS ASUS EZ DIY - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 - ASUS UEFI BIOS EZ Mode
USB 2.0 ports quantity *	4		
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 *	2		
Ethernet LAN (RJ-45) ports *	1		
Other features			
		Audio output	Realtek 7.1 Surround Sound High Definition Audio CODEC* - Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking - Supports up to 24-Bit/192 kHz playback Audio Features - Audio Shielding - Premium audio capacitors - Dedicated audio PCB layers * A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.
		Special features	Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports* AMD Ryzen™ 7000 Series Desktop Processors M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode) AMD B650 Chipset M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode) 4 x SATA 6Gb/s ports * AMD RAIDXpert2 Technology supports both PCIe RAID 0/1/10 and SATA RAID 0/1/10.
		Graphics output	1 x DisplayPort** 1 x VGA port 1 x HDMI® port*** * Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications. ** Supports max. 8K@60Hz as specified in DisplayPort 1.4. *** Supports 4K@60Hz as specified in HDMI® 2.1.



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