

## ASUS PRIME B650-PLUS AMD B650 Socket AM5 ATX

**Brand :** ASUS

**Product code:** 90MB1BS0-M0EAY0

**Product name :** PRIME B650-PLUS

- AMD AM5 Socket: Ready for AMD Ryzen™ 7000 Series Desktop Processors
  - Ultrafast Connectivity: M.2 PCIe 5.0, Realtek 2.5Gb Ethernet, USB 3.2 Gen 2 Type-C®, front USB 3.2 Gen 1 Type-C®, USB4® Support
  - 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, M.2 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 ATX motherboard with DDR5, PCIe 5.0 M.2 support, Realtek 2.5Gb Ethernet, DisplayPort, HDMI®, SATA 6 Gbps, USB 3.2 Gen 2 Type-C®, front USB 3.2 Gen 1 Type-C®, BIOS FlashBack™, USB4® Support and Arua Sync support



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
Processor socket *	Socket AM5	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Compatible processor series *	AMD Ryzen 7000 Series	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	Socket AM5	HDMI ports quantity *	1
<b>Memory</b>		HDMI version	2.1
Supported memory types *	DDR5-SDRAM	DisplayPorts quantity	1
Number of memory slots *	4	DisplayPort version	1.4
Memory slots type	DIMM	Headphone outputs	1
Memory channels	Dual-channel	Line-in	✓
ECC compatibility	ECC & Non-ECC	Microphone in	✓
Supported memory clock speeds	4800,5000,5200,5400,5600,5800,6000,6200,6400 MHz	S/PDIF out port	✓
Supported memory clock speed (max)	6400 MHz	<b>Network</b>	
Maximum internal memory *	128 GB	Ethernet LAN	✓
Unbuffered memory	✓	Ethernet interface type	2.5 Gigabit Ethernet
<b>Storage controllers</b>		Wi-Fi *	✗
Supported storage drive types	HDD & SSD	<b>Features</b>	
Supported storage drive interfaces *	M.2, SATA III	Motherboard chipset *	AMD B650
RAID support	✓	Audio output channels *	7.1 channels
RAID levels	0, 1, 10	Product colour	Multicolour
<b>Graphics</b>		Component for *	PC
Parallel processing technology support *	Not supported	Motherboard form factor *	ATX
On-board graphics card	✗	Motherboard chipset family *	AMD
<b>Internal I/O</b>		Power source type	ATX
USB 2.0 connectors *	2	Windows operating systems supported	Windows 10, Windows 11 x64
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2		
Number of SATA III connectors *	4		

Internal I/O		Expansion slots	
Front panel audio connector	✓	PCI Express x4 (Gen 1.x) slots	2
ATX Power connector (24-pin)	✓	PCI Express x16 (Gen 4.x) slots	2
CPU fan connector	✓	Number of M.2 (M) slots	2
Number of chassis fan connectors	3	<b>BIOS</b>	
EPS power connector (8-pin)	✓	BIOS type *	UEFI AMI
Number of COM connectors	1	BIOS memory size	256 Mbit
TPM connector	✓	<b>Packaging data</b>	
Thunderbolt headers	1	Package width	338 mm
12V power connector	✓	Package depth	373 mm
RGB LED pin header	✓	Package height	68 mm
<b>Rear panel I/O ports</b>		Package weight	1.35 kg
USB 2.0 ports quantity *	2	<b>Weight &amp; dimensions</b>	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Width	305 mm
		Depth	244 mm
		<b>Packaging content</b>	
		Cables included	SATA
		User guide	✓
		<b>Other features</b>	
		Back-to-BIOS button	✓
		Number of M.2 (E) slots	1



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