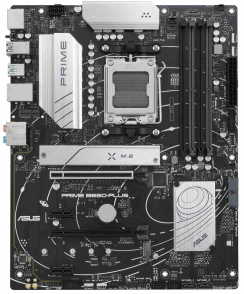
ASUS PRIME B650-PLUS AMD B650 Socket AM5 ATX



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	
Processor manufacturer *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen 7000 Series
Supported processor sockets	Socket AM5

Memory	
Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	ECC & Non-ECC
Supported memory clock speeds	4800,5000,5200,5400,5600,5800,6000,6200,6400 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, SATA III
RAID support	✓
RAID levels	0, 1, 10

Graphics	
Parallel processing technology support *	Not supported
On-board graphics card	✗

Internal I/O	
USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
Number of SATA III connectors *	4
Front panel audio connector	✓
ATX Power connector (24-pin)	✓
CPU fan connector	✓
Number of chassis fan connectors	3

Rear panel I/O ports	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports *	1
HDMI ports quantity *	1
HDMI version	2.1
DisplayPorts quantity	1
DisplayPort version	1.4
Headphone outputs	1
Line-in	✓
Microphone in	✓
S/PDIF out port	✓

Network	
Ethernet LAN	✓
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✗

Features	
Motherboard chipset *	AMD B650
Audio output channels *	7.1 channels
Product colour	Multicolour
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	AMD
Power source type	ATX
Windows operating systems supported	Windows 10, Windows 11 x64

Expansion slots	
PCI Express x4 (Gen 1.x) slots	2
PCI Express x16 (Gen 4.x) slots	2
Number of M.2 (M) slots	2

Internal I/O	
EPS power connector (8-pin)	✓
Number of COM connectors	1
TPM connector	✓
Thunderbolt headers	1
12V power connector	✓
RGB LED pin header	✓

Rear panel I/O ports	
USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2

BIOS	
BIOS type *	UEFI AMI
BIOS memory size	256 Mbit

Packaging data	
Package width	338 mm
Package depth	373 mm
Package height	68 mm
Package weight	1.35 kg

Weight & dimensions	
Width	305 mm
Depth	244 mm

Packaging content	
Cables included	SATA
User guide	✓

Other features	
Back-to-BIOS button	✓
Number of M.2 (E) slots	1

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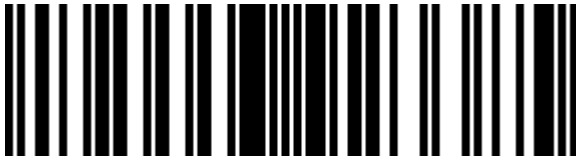

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