ASUS

ASUS PRIME B650-PLUS WIFI AMD B650 Socket AM5 ATX

Brand : ASUS

Product name : PRIME B650-PLUS WIFI

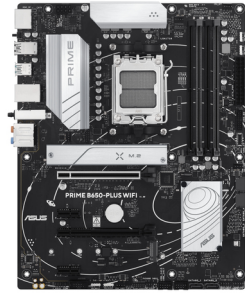**Product code:** 90MB1KP0-M0EAY0

AMD B650 ATX motherboard, DDR5, PCIe 5.0 M.2 support, Realtek 2.5Gb Ethernet, WIFI 6E, DisplayPort, HDMI, SATA 6 Gbps, USB 10Gbps Type-C,front USB 5Gbps Type-C, BIOS FlashBack, Thunderbolt 4 header, AURA Sync

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B650-PLUS WIFI

ASUS Prime series motherboards are expertly engineered to unleash the full potential of AMD Ryzen 9000 & 8000 & 7000 Series processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, PRIME B650-PLUS WIFI provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. This platform delivers the power and connectivity that advanced AI PC applications demand.

Processor

Processor manufacturer *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 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	7400,4800,7600,7800,5000,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200 MHz
Supported memory clock speed (max)	7600 MHz
Maximum internal memory *	192 GB
Unbuffered memory	✔

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA III
Number of HDDs supported	4
Number of storage drives supported	6
RAID support	✔
RAID levels	0, 1, 10

Graphics

Parallel processing technology support *	Not supported

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

Rear panel I/O ports

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 *	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
DisplayPorts quantity	1
S/PDIF out port	✔
WiFi-AP antenna jack	1

Network

Ethernet LAN	✔
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Bluetooth	✔
Bluetooth version	5.3

Features

Motherboard chipset *	AMD B650
Audio output channels *	7.1 channels
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	AMD
Windows operating systems supported	Windows 10 x64, Windows 11

Internal I/O

Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
Number of CPU fan connectors	2
Number of chassis fan connectors	3
EPS power connector (8-pin)	✔
Number of COM connectors	1
TPM connector	✔
Thunderbolt headers	1
12V power connector	✔
RGB LED pin header	✔
Number of RGB LED pin headers	1

Rear panel I/O ports

USB 2.0 ports quantity *	2

Expansion slots

PCI Express x1 (Gen 4.x) slots	2
PCI Express x16 (Gen 4.x) slots	2
Number of M.2 (M) slots	2
1st M.2 largest key size	22110
1st M.2 highest PCI Express generation	5.0
2nd M.2 largest key size	22110
2nd M.2 highest PCI Express generation	4.0

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
Antenna included	✔
Screws included	✔

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