

ASUS PRIME B840M-A WIFI Socket AM5 micro ATX

Brand : ASUS

Product code: 90MB1J20-M0EAY0

Product name : PRIME B840M-A WIFI

AMD B840 Chipset, 4 x DIMM slots, max. 192GB, DDR5, 3 x M.2 slots and 4 x SATA 6Gb/s ports

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B840M-A WIFI

ASUS Prime series motherboards are expertly engineered to unleash the full potential of AMD Ryzen™ 9000 series processors. The PRIME B840M-A WIFI motherboard provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. It's designed to be Advanced AI PC-ready, offering the power and connectivity needed for demanding AI applications.



Processor		Rear panel I/O ports	
Processor manufacturer *	AMD	HDMI ports quantity *	1
Processor socket *	Socket AM5	DisplayPorts quantity	2
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	WiFi-AP antenna jack	1
Supported processor sockets	Socket AM5	Network	
Memory		Ethernet LAN	✓
Supported memory types *	DDR5-SDRAM	Ethernet interface type	2.5 Gigabit Ethernet
Number of memory slots *	4	Wi-Fi *	✓
Memory slots type	DIMM	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Memory channels	Dual-channel	Wi-Fi standards	Wi-Fi 6E (802.11ax)
ECC compatibility	ECC & Non-ECC	Bluetooth	✓
Maximum internal memory *	192 GB	Bluetooth version	5.3
Unbuffered memory	✓	Features	
Storage controllers		Audio output channels *	7.1 channels
Supported storage drive types	HDD & SSD	Component for *	PC
Supported storage drive interfaces *	M.2, SATA III	Motherboard form factor *	micro ATX
Number of HDDs supported	4	Motherboard chipset family *	AMD
Number of storage drives supported	7	Windows operating systems supported	Windows 10 x64, Windows 11
RAID support	✓	Expansion slots	
RAID levels	0, 1, 5, 10	PCI Express x16 (Gen 3.x) slots	2
Graphics		PCI Express x16 (Gen 4.x) slots	1
Parallel processing technology support *	Not supported	Number of M.2 (M) slots	3
Internal I/O		1st M.2 largest key size	2280
USB 2.0 connectors *	2	1st M.2 highest PCI Express generation	4.0
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	2nd M.2 largest key size	2280
		2nd M.2 highest PCI Express generation	4.0

Internal I/O		Expansion slots	
Number of SATA III connectors *	4	3rd M.2 largest key size	2280
S/PDIF out connector	✓	3rd M.2 highest PCI Express generation	3.0
Front panel audio connector	✓	BIOS	
Front panel connector	✓	BIOS type *	UEFI AMI
ATX Power connector (24-pin)	✓	BIOS memory size	256 Mbit
CPU fan connector	✓	Packaging data	
Number of chassis fan connectors	3	Package width	275 mm
Number of COM connectors	1	Package depth	275 mm
TPM connector	✓	Package height	67.5 mm
12V power connector	✓	Package weight	1.52 kg
Rear panel I/O ports		Weight & dimensions	
USB 2.0 ports quantity *	4	Width	244 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Depth	244 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Packaging content	
Ethernet LAN (RJ-45) ports *	1	Cables included	SATA
		Antenna included	✓
		Screws included	✓



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