

ASUS PRIME A620AM-K AMD A620A Socket AM5 micro ATX

Brand : ASUS

Product code: 90MB1GX0-M0EAY0

Product name : PRIME A620AM-K

AMD Socket AM5, AMD A620A Chipset

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A620AM-K

ASUS Prime series motherboards are expertly engineered to unleash the full potential of AMD Ryzen™ 9000 series processors. The PRIME A620AM-K 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.

Performance

Digital Power Design

PRIME A620AM-K features 6+2+1 phase power design with discrete MOSFETs, ensuring efficient and stable power delivery for AMD processors plus steady performance for day-to-day use.



Processor		Internal I/O	
Processor manufacturer *	AMD	Number of RGB LED pin headers	3
Processor socket *	Socket AM5	Rear panel I/O ports	
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	USB 2.0 ports quantity *	2
Supported processor sockets	Socket AM5	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	4
Memory		Ethernet LAN (RJ-45) ports *	1
Supported memory types *	DDR5-SDRAM	PS/2 ports quantity	1
Number of memory slots *	2	HDMI ports quantity *	1
Memory slots type	DIMM	DisplayPorts quantity	1
Memory channels	Dual-channel	Network	
ECC compatibility	Non-ECC	Ethernet LAN	✓
Maximum internal memory *	128 GB	Ethernet interface type	Gigabit Ethernet
Unbuffered memory	✓	Wi-Fi *	✗
Storage controllers		Features	
Supported storage drive types	HDD & SSD	Motherboard chipset *	AMD A620A
Supported storage drive interfaces *	M.2, SATA III	Audio output channels *	7.1 channels
Number of HDDs supported	4	Component for *	PC
Number of storage drives supported	5	Motherboard form factor *	micro ATX
RAID support	✓	Motherboard chipset family *	AMD
RAID levels	0, 1, 5, 10	Windows operating systems supported	Windows 10 x64, Windows 11
Graphics		Expansion slots	
Parallel processing technology support *	Not supported	PCI Express x1 (Gen 3.x) slots	1
Internal I/O		PCI Express x16 (Gen 4.x) slots	1
USB 2.0 connectors *	2	Number of M.2 (M) slots	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	1st M.2 largest key size	2280
		1st M.2 highest PCI Express generation	4.0

Internal I/O		BIOS	
Number of SATA III connectors *	4	BIOS type *	UEFI AMI
S/PDIF out connector	✓	BIOS memory size	256 Mbit
Front panel audio connector	✓	Packaging data	
Front panel connector	✓	Package width	260 mm
ATX Power connector (24-pin)	✓	Package depth	270 mm
CPU fan connector	✓	Package height	51.5 mm
Number of CPU fan connectors	1	Package weight	900 g
Number of chassis fan connectors	2	Weight & dimensions	
Number of COM connectors	1	Width	226 mm
TPM connector	✓	Depth	221 mm
12V power connector	✓	Packaging content	
RGB LED pin header	✓	Cables included	SATA
		Screws included	✓



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Publication date: 10-OCT-2025. Prints or copies of Information are only valid on the printed Publication date