

ASUS PRIME A320M-K/CSM

Asus Prime A320M-K/CSM AMD A320 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Asus Prime A320M-K/CSM AMD A320 Chipset AMD Ryzen AM4 Socket Motherboard, 2 x DIMM, Max. 64GB, DDR4 3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered Memory, 1 x PS/2 keyboard (purple), 1 x PS/2 mouse (green), 1 x D-Sub, 1 x HDMI, 1 x LAN (RJ45) port(s), 4 x USB 3.1 Gen 1 (blue), 2 x USB 2.0, 3 x Audio jack(s), 1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s) (19-pin), 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s), 1 x M.2 Socket 3 with M key, type 2242/2260/2280 storage devices support (SATA & PCIe 3.0 x 4 mode), 1 x COM port(s) connector(s), 4 x SATA 6Gb/s connector(s), 1 x CPU Fan connector(s) (1 x 4 -pin), 1 x Chassis Fan connector(s) (1 x 4 -pin), 1 x S/PDIF out header(s), 1 x 24-pin EATX Power connector(s), 1 x 4-pin ATX 12V Power connector(s), 1 x Front panel audio connector(s) (AAFP), 1 x System panel(s), 1 x Clear CMOS jumper(s), 1 x Speaker connector, mATX Form Factor, 22.6 cm x 22.1 cm



Specifications

Features:

Prime

ASUS Prime is the next evolution of the ASUS motherboard, born of a pedigree that stretches back to 1989. Our team of world-class engineers are passionate about empowering everyone to enjoy the benefits of customization and tuning, and the driving force behind the development of Prime is to make advanced enthusiast controls easily accessible - maximizing performance, stability and compatibility for the very best DIY PC experiences. Simply stated: it's time for Prime.

ASUS Corporate Stable Model

ASUS Corporate Stable Model (CSM) is a commercial program designed to provide stable and reliable motherboards. Offering up to 36-month product lifecycle support and 6-month end-of-life notice to allow sufficient lead times for your organization to get ready for product transitions. Each purchase of an ASUS CSM motherboard comes with ASUS Control Center Express - server-grade IT management software.

ASUS Control Center Express

ASUS Control Center Express is centralized IT management software designed to provide a convenient, effective, secure and cost-saving solution for enterprises, small and medium-sized businesses, and data centers in any type of industry. With the help of ASUS Control Center Express, your organization will be equipped to achieve success in even the most challenging modern IT environments.

Optimize IT endpoint management

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Designed to assist IT staff in monitoring and controlling devices within their corporate networks, and facilitate inventory checking in multiple locations remotely

Automate IT maintenance

Allows IT staff to schedule automatic updates of the latest BIOS, software and utilities to specific or all devices at off-peak times, enhancing system stability and IT operational flexibility

Securely manage all of endpoints

Securely manage endpoint configuration, portable storage access and PC software applications by enabling them to create grouping rules on individual devices

Built to Last

ASUS is the world's foremost motherboard manufacturer, renowned for our unique Design Thinking approach. Our exhaustive testing exceeds industry standards, supported by high-quality components for exceptional real-world protection. Our motherboards are proven to be compatible with more than 1,000 components and devices, and each new model undergoes a minimum of 8,000 hours of strict validation. ASUS gives you the peace of mind of knowing that your motherboard is fit for all environments and applications. By choosing ASUS, you also gain the freedom to select outstanding component options, for trouble-free DIY experiences.

5X Protection III

Hardware safeguards to ensure long-term durability.

350 DDR4 Compatibility

Industry-leading DDR4 memory compatibility for best flexibility and reassurance.

1000 Compatible Devices

Compatibility with a range of CPUs, memory modules, graphics cards and more.

8000 Validation Hours

Extensive testing with latest components for enhanced reliability, compatibility and safety.

5X Protection III

PRIME A320 series motherboards are engineered with industry-leading 5X Protection III, employing the finest components, excellent circuit design, and exacting standards to guarantee the quality and long-term durability of your motherboard. That means exceptional protection and stability for your build - thanks to decades of engineering experience from the world's leading motherboard brand.

Fortified PCIe slot prevents damage

SafeSlot Core is the ASUS-exclusive PCIe slot. Featuring a fortified design that's anchored to the motherboard by a special hook, SafeSlot Core provides 1.6x stronger retention and 1.3x greater shearing resistance than standard expansion slots.

Pumped-up throughput. 2.5x higher surge tolerance.

ASUS LANGuard is hardware-level networking protection that employs signal-coupling technology and premium anti-EMI surface-mounted capacitors to ensure a more reliable connection and better throughput, plus electrostatically guarded and surge-protected components for greater tolerance to static electricity and improved protection against surges.

World-class circuit-protecting power design

An exclusive circuit design with built-in voltage regulators to protect your chipset, connectivity ports, and audio codecs from damage caused by unexpected high-level voltages from unstable or inferior power supplies.

Precision control for stable power

ASUS-exclusive DIGI VRM intelligently delivers power to the processor based on real-time demands, reducing energy waste

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and improving system stability.

Short-circuit damage prevention

Onboard resettable fuses prevent overcurrent and short-circuit damage. This extends beyond I/O ports to DRAM to safeguard the lifespan of your system and connected devices.

3x corrosion-resistance for greater durability

Corrosion-resistant stainless-steel back I/O panels bonded with chromium oxide have a lifespan that's three times longer than ordinary panels.

Electrostatic discharge protection

ASUS ESD Guards prevent damage from electrostatic discharge, up to +/- 10kV for air discharge and +/- 6kV for contact discharge, arranged in an active-protective-circuit design that prolongs the life of components.

LAN port

ESD TVS diode protection on the LAN circuit.

USB connectors

TVS diodes for surface-mount and dual-inline packages.

VGA connectors

Additional on-circuit ESD TVS diodes to protect D-Sub functionality.

Keyboard and mouse connectors

Additional on-circuit ESD transient-voltage-suppression.

Tested to be compatible with 1,000 CPUs, DDR4 memory modules, graphics cards and more

Having the freedom to pick and choose the parts that go into your machine is at the heart of PC DIY. Our extensive certification program focuses on providing the very best compatibility with the widest range of components and devices, giving you the freedom to build and upgrade without frustration. Compatible today and compatible far into the future - that's the ASUS way.

View supported devices and Qualified Vendor List for compatible memory

The superior compatibility of Prime A320 series is evidenced by our extensive list of supported devices - which includes thousands of compatible components - and our Qualified Vendor List that identifies memory compatibility. That means more choices for worry-free PC-building experiences.

Great Compatibility with ASUS Products

ASUS offers a suite of proprietary components - graphics cards, sound cards, optical drives - that perfectly complement Prime A320 series, so you can complete your custom motherboard build with confidence!

Top-to-bottom Reliability

ASUS motherboards have superb endurance. We verify this by subjecting every board to more than 8,000 hours of stringent tests. A barrage of burn-in, environmental, compatibility, software and safety tests confirm that our motherboards are exceptionally robust. It also shows that ASUS reliability surpasses industry standards, ensuring that every component is designed to function flawlessly in any environment.

Temperature and Humidity Test

Ensures components withstand extreme conditions.

Thermal Measurement Test

Ensures that the system remains cool and stable under the heaviest loads.

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Insertion Test

Every port and connector is put through repeated installation cycles.

Aging Test

Up to 48-hour aging test ensures reliability.

Power Consumption Test

Checked for world-class energy efficiency.

Temperature and DC Margin Test

Ensures that the motherboard is capable of coping with Voltage fluctuations caused by varying temperatures.

Thermal Shock Test

Ensures ability to survive temperature changes during transportation.

Non-Operation Shock Test

Built to withstand jolts that may occur during shipping.

Burn-In Test

Every component is checked to ensure flawless operation in any environment.

Installation Test

Connector placement is double-checked to ensure hassle-free installation.

Drop Test

Drop tests from various heights ensure durability.

Salt and Spray Test

Tested for I/O reliability, prolonged lifespan and rust-resistance.

DDR4 Support

With DDR4, you'll accelerate memory frequencies up to an incredible 3200MHz! And ASUS works with almost every DDR4 memory vendor, so you're assured the best compatibility.

Dedicated CPU and case fan controls

Exclusive Fan Xpert ensures every fan achieves the best balance of cooling performance and low noise - and with Prime A320 series boards and their hardware-level 4-pin PWM mode for case fans. Fan Xpert even includes Auto-Tuning mode to scan and detect all fan characteristics for single-click customization!

Combined onboard features deliver elevated audio

Intelligent design and premium hardware create audio quality unlike anything you've ever experienced!

Noise isolation

Audio shielding ensures precision analog/digital separation and greatly reduced multi-lateral interference.

Dedicated Audio PCB Layers

Separate layers for left and right tracks ensures both channels deliver consistent, equal quality.

Audio Enjoyment

Premium Japanese audio capacitors provide warm, natural, and immersive sound with exceptional clarity and fidelity.

EPU

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With the Energy Processing Unit (EPU) you'll enjoy system power savings. EPU automatically optimizes power consumption, and maximizes savings with Away mode.

Speed Up with Onboard M.2 Up to 32Gb/s

With x4 PCI Express 3.0/2.0 bandwidth, M.2 supports up to 32Gb/s data-transfer speeds. It is the perfect choice for an operating system or application drive, making your whole PC or professional apps work as fast as possible.

Instant front-panel USB 3.0 Experience

We've put USB 3.0 right where you need it - four super-speed ports on the front panel. Experience data-transfer speeds up to 10X faster than USB 2.0 with instant plug-and-play connectivity, so no more back-breaking contortions in the hunt for hard-to-reach rear ports!

Effortless PCI Express component removal

The large winged clip is easy to reach and easy to operate. Just press the Q-Slot clip lightly, and the graphics card pops out. Installing or removing even the biggest graphics cards is no sweat!

Easy memory removal

Even if you work with a smaller case, just push down on the one-sided clip and push or pull RAM modules in or out - removing memory is that simple!

Media-acclaimed UEFI BIOS

The smoothest, slickest mouse-controlled graphical BIOS has been improved to make it even more appealing. Whether you're a PC novice or a seasoned overclocker, EZ and Advanced modes help you find your way, quickly and easily.

EZ Flash 3

Update the BIOS via the internet, without leaving the BIOS interface.

S.M.A.R.T

Check your storage device Self-Monitoring, Analysis, and Reporting Technology logs to gauge reliability and possibly to determine potential failures.

Q-Fan Control

You can configure the fan's operating speed manually, or use the easy pre-configured fan profiles to select Standard, Silent, Turbo, or Full Speed modes!

My Favorite

Quickly find tuning options and add preferred tools to the list.

EZ mode

Intuitive graphical fan control - Fine-tune individual fans simply by dragging a curve with the mouse.

- EZ XMP - Improve DRAM performance with a click.
- SATA information - Easily display SATA port details for device identification.
- Fast clock adjustment - Use mouse controls to quickly change time and date settings.

Advanced mode

- Last modified log - Track last change and save preferred profiles onto a USB drive.
- SATA port renaming - Rename SATA ports for easy identification.

One-stop access to innovative ASUS features

ASUS AI Suite 3 offers a brand-new user experience through a clearer and more attractive interface with support for larger monitors. It consolidates all exclusive ASUS features into one simple-to-use package, allowing you to supervise overclocking, energy consumption, fan speeds, voltages and more. This all-in-one app offers diverse and easy-to-use functionality, with no

need to switch back and forth between different utilities.

AM4 socket for 3rd/2nd/1st Gen AMD Ryzen™ / 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics / Athlon™ with Radeon™ Vega Graphics / 7th Generation A-Series / Athlon X4 Processors

This motherboard supports AMD® Ryzen™ processors, 7th Generation A-series accelerated processing units (APUs) and Athlon™ CPUs. The high-performance Ryzen™ processor supports up to eight cores, and is based on the innovative Zen core architecture. The 7th Generation A-series APUs feature integrated AMD Radeon R-series graphics. AMD AM4-socket processors feature dual-channel DDR4 memory, native 5Gbps USB 3.0 and 16 PCI Express® 3.0/2.0 lanes for superb performance.

AMD A320 Chipset

The AMD A320 chipset delivers outstanding capabilities for the latest AMD® AM4-socket Ryzen™ processors, 7th Generation A-series APUs and Athlon™ CPUs. It provides two USB 3.0 ports, and four 6Gbps SATA ports for faster data retrieval.

Specifications:

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Specifications	
Product Code	ASUS PRIME A320M-K/CSM
CPU	AMD AM4 Socket for 3rd/2nd/1st Gen AMD Ryzen /2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics/Athlon with Radeon Vega Graphics/7th Generation A-series/Athlon X4 Processors
Chipset	AMD A320
Memory	3rd/2nd/1st Gen AMD Ryzen / 2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics Processors
	2 x DIMM, Max. 64GB, DDR4 3200(O.C.) / 3000(O.C.) / 2933(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Un-buffered Memory
	AMD 7th Generation A-Series/Athlon X4 Processors
	2 x DIMM, Max. 32GB, DDR4 2400/2133 MHz Un-buffered Memory
	Dual Channel Memory Architecture
	ECC Memory (ECC mode) support varies by CPU.
	* Hyper DIMM support is subject to the physical characteristics of individual CPUs.
Graphic	Integrated Graphics in the 2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics /Athlon with Radeon Vega Graphics /7th Generation A-Series APU
	Multi-VGA output support : HDMI/RGB ports
	- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
	- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz
	Maximum shared memory of 2048 MB (for iGPU exclusively)

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Expansion Slots	3rd/2nd/1st Gen AMD Ryzen Processors
	1 x PCIe 3.0/2.0 x16 (x16 mode)
	2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics /7th Generation A-series/Athlon X4 Processors
	1 x PCIe 3.0/2.0 x16 (x8 mode)
	AMD Athlon with Radeon Vega Graphics Processors
	1 x PCIe 3.0/2.0 x16 (x4 mode)
	AMD A320 chipset
	2 x PCIe 2.0 x1
Storage	AMD A320 chipset :
	4 x SATA 6Gb/s port(s), gray
	Support Raid 0, 1, 10
	3rd/2nd/1st Gen AMD Ryzen / 2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics :
	1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 x 4 mode)
	AMD Athlon with Radeon Vega Graphics/ 7th Generation A-Series/ Athlon X4 Processors :
	1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (SATA mode)
LAN	Realtek RTL8111H, 1 x Gigabit LAN Controller(s)
Audio	Realtek ALC887/897 8-Channel High Definition Audio CODEC
USB Ports	3rd/2nd/1st Gen AMD Ryzen / 2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics/ Athlon with Radeon Vega Graphics/ 7th Generation A-series/ Athlon X4 Processors :
	4 x USB 3.1 Gen 1 port(s) (4 at back panel, blue)
	AMD A320 chipset :
	2 x USB 3.0 port(s) (2 at mid-board)
	AMD A320 chipset :
	6 x USB 2.0 port(s) (2 at back panel, 4 at mid-board)

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Special Features	ASUS 5X Protection III :
	- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage
	- ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges!
	- ASUS Overvoltage Protection: World-class circuit-protecting power design
	- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!
	- ASUS DIGI VRM: 6 Phase digital power design
	ASUS Exclusive Features :
	- AI Suite 3
	- Ai Charger
	ASUS Quiet Thermal Solution :
	- Stylish Fanless Design Heat-sink solution
	- ASUS Fan Xpert
	ASUS EZ DIY :
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	- Multi-language BIOS
	ASUS Q-Design :
	- ASUS Q-Slot
	- ASUS Q-DIMM
Operating System Support	Windows 10
Back I/O Ports	1 x PS/2 keyboard (purple)
	1 x PS/2 mouse (green)
	1 x D-Sub
	1 x HDMI
	1 x LAN (RJ45) port(s)
	4 x USB 3.1 Gen 1 (blue)
	2 x USB 2.0
	3 x Audio jack(s)

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Internal I/O Ports	1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s) (19-pin)
	2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
	1 x M.2 Socket 3 with M key, type 2242/2260/2280 storage devices support (SATA & PCIe 3.0 x 4 mode)
	1 x COM port(s) connector(s)
	4 x SATA 6Gb/s connector(s)
	1 x CPU Fan connector(s) (1 x 4 -pin)
	1 x Chassis Fan connector(s) (1 x 4 -pin)
	1 x S/PDIF out header(s)
	1 x 24-pin EATX Power connector(s)
	1 x 4-pin ATX 12V Power connector(s)
	1 x Front panel audio connector(s) (AAFP)
	1 x System panel(s)
	1 x Clear CMOS jumper(s)
	1 x Speaker connector
Accessories	User's manual
	I/O Shield
	2 x SATA 6Gb/s cable(s)
	1 x M.2 Screw Package
	1 x Supporting DVD
BIOS	128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, My Favorites, Last Modified log, F12 PrintScreen, ASUS DRAM SPD (Serial Presence Detect) memory information, F6 Qfan Control
Operating System	Windows 10 64-bit
	Windows 7 64-bit *1
Form Factor	mATX Form Factor
	8.9 inch x 8.7 inch (22.6 cm x 22.1 cm)
Note	*1 Windows 7 64-bit is only supported when using AMD Ryzen 2nd Generation/ Ryzen 1st Generation / 7th Generation A-series/ Athlon X4 Processors.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx.co.za/ASUS-PRIME-A320M-K-CSM-Asus-Prime-A320M-K-CSM-AMD-A320-Buy-p-271710.php>

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