



ASUS PRIME A520M-R AMD A520 Socket AM4 micro ATX

Model: 90MB1H60-M0EAY0

Manufacturer: ASUS

EAN: 4711387466414

Product Code: 475784

R2,226

ASUS PRIME series motherboards are expertly engineered to unleash the full potential of 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series/ 3000 G-Series AMD Ryzen platform. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, PRIME A520 series motherboards provide daily users and DIY PC builders a range of performance tuning options via intuitive software and firmware features.

FLEXIBILITY

Comprehensive controls form the foundation of the ASUS PRIME series. The PRIME A520 motherboard packs flexible tools to tune every aspect of your system, enabling performance tweaks to perfectly match the way you work to maximize productivity.

Intelligent Control

All-Around Energy Efficiency

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

Flexible Cooling Controls

ASUS Fan Xpert software provides comprehensive control over fans. An Auto-Tuning mode intelligently configures all parameters with a single click. There's also an Extreme Quiet mode that reduces chassis fan speeds to below the default minimum to keep your system whisper-quiet when performing light tasks. Fans can also be controlled via the UEFI BIOS.

Precise Digital Power Control

The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, automatically switching frequency and power-efficiency settings. It also allows you to fine-tune your CPU for ultimate stability and performance.

UEFI BIOS

The renowned ASUS UEFI BIOS provides everything you need to configure, tweak and tune your system. It offers intelligently simplified options for PC DIY beginners, as well as comprehensive features for seasoned veterans.

Advanced Tuning for Serious Tweakers

An intuitive Advanced mode offered via the UEFI lets you take complete control. A built-in search feature makes it easy to find options, and various advanced functions let you intelligently make nuanced adjustments so you can dial in performance just the way you want.

Quick and Simple Setup

EZ mode displays vital settings and stats and also offers guided wizards, drag-and-drop functionality, and one-click application of important settings — all to help you get your rig up and running in no time.

Intuitive Graphical Fan Control

Fine-tune individual fan settings simply by dragging a curve with the mouse.

EZ XMP

Improve DRAM performance with one click.

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COOLING

PRIME A520 series features comprehensive cooling controls that are configurable via Fan Xpert software or via the UEFI BIOS.

Multiple Temperature Sources

Each header can dynamically reference three thermal sensors. Fan Xpert allows you to map the temperature of supported ASUS graphics cards to optimize cooling for GPU- and CPU-intensive tasks.

Smart Protection

A dedicated integrated circuit protects the fan header from overheating and overcurrent.

4-Pin PWM/DC Fan

Each onboard header supports auto-detection of PWM or DC fans.

PERFORMANCE

ASUS A520 motherboard provides all the fundamentals to boost daily productivity, so your system will be ready for action with stable power, intuitive cooling and flexible data transfer options.

Storage

M.2 Support (up to 32 Gbps)

M.2 Slot supports data-transfer speed up to 32Gbps* via x4 PCI Express 3.0 bandwidth, enabling quicker boot-up and app load times with OS or application drives.

* Actual transmission speeds will be lower than the theoretical maximum speed.

Connectivity

USB 5Gbps

Numerous USB ports support high-end rigs loaded with peripherals, including rear-panel USB Type-A connectors with fast USB 5Gbps connectivity for compatible cases.

Realtek 1Gb Ethernet

Realtek 1Gb Ethernet reduces CPU overhead and offers exceptionally high TCP and UDP throughput for faster, smoother data transfers.

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LANGuard

ASUS LANGuard is a hardware-level network protection feature that integrates advanced signal-coupling technology and premium anti-EMI surface-mounted capacitors to improve throughput and ensure a more reliable connection.

Combined onboard features deliver elevated audio

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

Audio Shielding

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.

Premium Audio Capacitors

Provides warm, natural, and immersive sound with exceptional clarity and fidelity.

Armoury Crate

Within a single intuitive interface, Armoury Crate offers easily customized settings for every compatible device in your arsenal, plus controls for an ever-growing family of ASUS products, including keyboard and mouse preferences. Armoury Crate also integrates product registration and a news feed so that you never miss updates of interest to the ASUS community.

Q-LED Core

The Q-LED Core display produces light patterns by power LED during the Power-On Self-Test (POST) that can help users troubleshoot potential issues.

SafeSlot Core

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.

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Overvoltage Protection

World-class circuit-protecting power design

An exclusive circuit design with built-in voltage regulators to protect your motherboard from damage caused by unexpected high-level voltages from unstable or inferior power supplies.

Stainless-Steel Back I/O

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.

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