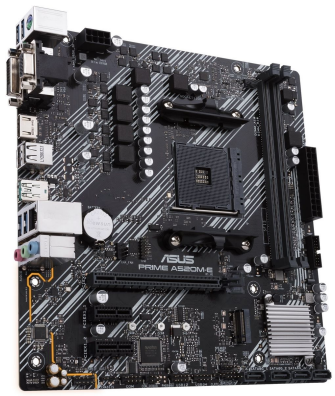
ComX Computers
Product Specification Sheet

MB-AA520PME

Asus Prime A520M-E AMD Ryzen 5000 Series Socket AM4 mATX Motherboard

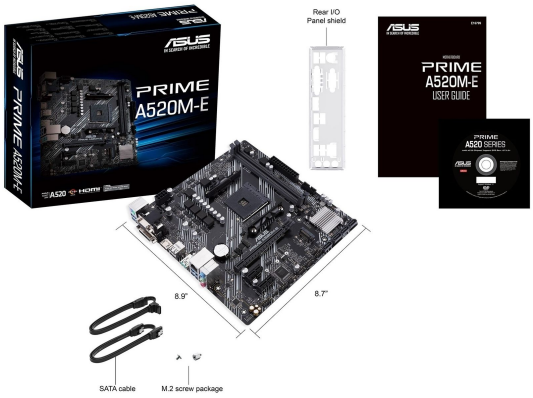
Product Overview

Asus Prime A520M-E AMD Ryzen 5000 Series Socket AM4 mATX Motherboard, AMD A520 Chipset, 1x D-Sub, 1x DVI-D, 1x HDMI 2.1(4k@60hz), 2x DDR4 DIMM Memory slots, 1x PCI-e 3.0 x16 (x16 mode), 2x PCI-e 3.0 x1, 1x M.2 Socket, 4x SATA 6Gb/s Ports, Realtek RTL8111h 1GB Ethernet, USB 3.2 Gen 2 Ports, USB 3.2 Gen 1 Ports (Type-A), USB 2.0 Ports (Type-A)









Specifications

Overview:

PRIME A520M-E
AMD A520 (Ryzen AM4) micro ATX motherboard with M.2 support, 1 Gb Ethernet, HDMI/DVI/D-Sub, SATA 6 Gbps, USB 3.2 Gen 2 Type-A

- AMD AM4 socket:Ready for Ryzen 5000 Series/ 4000 G-Series/ 3000 Series Desktop Processors
- Comprehensive cooling:PCH heatsink and Fan Xpert
- Ultrafast connectivity:M.2 support, 1 Gb Ethernet, USB 3.2 Gen 2 Type-A
- 5X Protection III:Multiple hardware safeguards for all-around system protection

Features:

ASUS Prime series is expertly engineered to unleash the full potential of 3rd Generation 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.

Tune It Your Way
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 you to tweak performance settings to perfectly match the way you work - maximizing your productivity.

Cooler by Design
PRIME A520M-E is engineered with an array of hybrid fan headers and features comprehensive cooling controls that are configurable via Fan Xpert software or via the UEFI BIOS, ensuring your rig stays cool and stable under intense workloads.

- Multiple Temperature Sources
- Smart Protection
- 4-Pin PWM/DC Fan
- 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.

Build on a Solid Foundation
Prime 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 transfer options.

Achieve speed with onboard M.2
M.2 Slot supports data-transfer speed up to 32Gbps via x4 PCI Express 3.0 bandwidth. It' s the perfect choice for an operating system or application drive, providing fast access to data.

Little Things Make a Big Difference
Prime A520 series adds the nuanced details that improve every experience, from exclusive codecs that provide pristine audio quality to intuitive interface that let you customize your system to create a unique personal look.

Combined onboard features deliver elevated audio
Intelligent design and premium hardware create audio quality unlike anything you've ever experienced.

Specifications:

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Specifications	
Product Code	MB-AA520PME
CPU	AMD AM4 Socket for AMD Ryzen 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series Desktop Processors
Chipset	AMD A520
Memory	2 x DIMM, Max. 64GB, DDR4 4866(O.C) / 4600(O.C) / 4466(O.C.) / 4400(O.C) / 4333(O.C.) / 4266(O.C.) / 4200(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3733(O.C.) / 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3333(O.C.) / 3200 / 3000 / 2933 / 2800 / 2666 / 2400 / 2133 MHz Un-buffered Memory
	Dual Channel Memory Architecture
	ECC Memory (ECC mode) support varies by CPU.

Graphic	1 x D-Sub
	1 x DVI-D
	1 x HDMI 2.1(4K@60HZ)
Expansion Slots	AMD Ryzen 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series Desktop Processors
	1 x PCIe 3.0 x16 (x16 mode)
	AMD A520 Chipset
	2 x PCIe 3.0 x1
Storage	Total supports 1 x M.2 slot(s) and 4 x SATA 6Gb/s ports
	AMD Ryzen 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series Desktop Processors :
	1 x M.2 Socket 3, with M Key, Type 2242/2260/2280 (PCIE 3.0 x4 and SATA modes) storage devices support
	AMD A520 Chipset :
	4 x SATA 6Gb/s port(s)
	Support Raid 0, 1, 10
LAN	Realtek RTL8111H 1Gb Ethernet
	ASUS LANGuard
Audio	Realtek ALC887/897 7.1 Surround Sound High Definition Audio CODEC
	- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking, up to 24-Bit/192kHz playback
	Audio Feature :
	- LED-illuminated design
	- Audio Shielding
	- Dedicated audio PCB layers
	- Premium Japanese audio capacitors
	* Choose the chassis with HD audio module in front panel to support 8-channel audio output.
USB Ports	Rear USB Port (Total 7)
	1 x USB 3.2 Gen 2 port(s)
	4 x USB 3.2 Gen 1 port(s)(4 x Type-A)
	2 x USB 2.0 port(s)(2 x Type-A)
	Front USB Port (Total 6)
	2 x USB 3.2 Gen 1 port(s)(2 x Type-A)
	4 x USB 2.0 port(s)(4 x Type-A)

Software Features	ASUS Exclusive Software
	Armoury Crate
	AI Suite 3
	- Performance and Power Saving Utility
	TurboV EVO
	EPU
	Digi+ VRM
	Fan Xpert
	- EZ update
	ASUS CPU-Z
	AI Charger
	DAEMON Tools
	Norton Anti-virus software (Free Trial for 60 days)
	WinRAR
	UEFI BIOS
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
ASUS Special Features	ASUS 5X PROTECTION III
	- ASUS DIGI+ VRM
	- ASUS LANGuard
	- ASUS Overvoltage Protection
	- ASUS SafeSlot Core
	- ASUS Stainless-Steel Back I/O
	ASUS Q-Design
	- ASUS Q-DIMM
	- ASUS Q-Slot
	ASUS Thermal Solution
	- Aluminum heatsink design
	ASUS Lighting Control

Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s)
	1 x DVI-D
	1 x D-Sub
	1 x HDMI
	1 x LAN (RJ45) port(s)
	1 x USB 3.2 Gen 2 (teal blue) (1 x Type-A)
	4 x USB 3.2 Gen 1 (blue) Type-A
	2 x USB 2.0
	3 x Audio jack(s)
Internal I/O Ports	1 x CPU Fan connector(s)
	1 x Chassis Fan connector(s)
	1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s)
	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 SPI TPM header
	4 x SATA 6Gb/s connector(s)
	1 x S/PDIF out header(s)
	1 x 24-pin EATX Power connector(s)
	1 x 8-pin EATX 12V Power connectors
	1 x Front panel audio connector(s) (AAFP)
	1 x Clear CMOS jumper(s)
	1 x System panel connector
	1 x COM port header
	1 x Speaker connector
Accessories	User's manual
	I/O Shield
	2 x SATA 6Gb/s cable(s)
	1 x Supporting DVD
	1 x M.2 SSD screw package(s)
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE
Operating System	Windows 10 64-bit
Form Factor	mATX Form Factor
	8.9 inch x 8.7 inch (22.6 cm x 22.1 cm)

Product Information Online

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

Product page:
https://www.comx-computers.co.za/MB-AA520PME-Asus-Prime-A520M-E-AMD-Ryzen-5000-Series-Socket-AM4-mATX-Motherboard-p-270789.php

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