

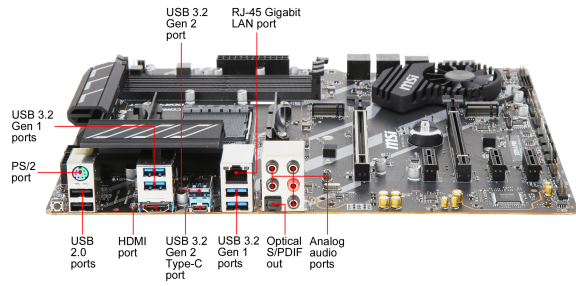
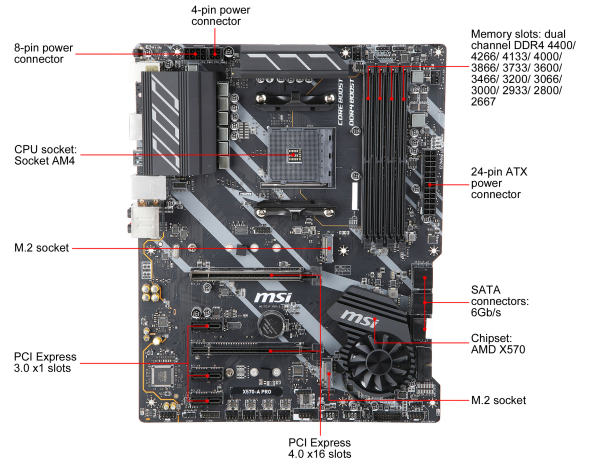


# MSI X570-A PRO AM4 ATX Motherboard

\$169.95

## Product Images





## Short Description

---

The MSI X570-A PRO AM4 ATX Motherboard is built on the AMD X570 chipset, supporting second- and third-generation AMD Ryzen processors with an AM4 socket. It has four memory slots for up to 128GB of dual-channel DDR4 RAM, which can be overclocked to up to 4400 MHz. For storage, it's equipped with six SATA III ports and two M.2 slots.

## Description

---

The MSI X570-A PRO AM4 ATX Motherboard is built on the AMD X570 chipset, supporting second- and third-generation AMD Ryzen processors with an AM4 socket. It has four memory slots for up to 128GB of dual-channel DDR4 RAM, which can be overclocked to up to 4400 MHz. For storage, it's equipped with six SATA III ports and two M.2 slots. There are two PCIe 4.0 x16 slots for graphics cards, one of which only runs at x4, and three PCIe 3.0 x1 slots for other PCI-based hardware. Other integrated features include Realtek 8111H Gigabit Ethernet and Realtek ALC1220 7.1-channel HD audio.



### AMD X570 Chipset

The AMD X570 chipset is designed around 3rd generation AMD Ryzen 3000-series processors. Along with multiple improvements, its most noteworthy one is the addition of PCIe 4.0. PCIe 4.0 has roughly double the bandwidth of PCIe 3.0, which is beneficial for graphics cards, networking devices, NVMe drives, and more.

### Cooling

The X570-A PRO utilizes heavy-duty heatsinks on the MOSFETs for reliable processor power delivery and on the chipset to ensure the system stays operational under intense workloads. It's also equipped with multiple DC/PWM fan headers for users to connect additional cooling solutions. Users can set their cooling preference (Boost/Balance/Silence) as needed within the Dragon Center software or its UEFI BIOS. Moreover, MSI's M.2 SHIELD FROZR heatsink helps to prevent SSD throttling.

### Lightning Gen 4 PCIe

Aside from the increased transfer speeds with PCIe 4.0, MSI's Lightning Gen 4 PCIe slots are reinforced with steel and built with a server grade PCB for additional durability. Please note that PCIe 4.0 is backwards compatible with PCIe 3.0.

### CPU

A combination of an optimized circuit layout and MSI's CoreBoost CPU power delivery system ensures performance and stability for high-end processors. Additional features include load-line calibration, overvoltage protection, a digital power design, and double power connectors.

### Memory

MSI motherboards feature an optimized memory circuit layout and extensive compatibility testing with major memory manufacturers. Users can also easily overclock their RAM with A-XMP profiles within BIOS.

### Storage

With the addition of PCIe 4.0, M.2 storage solutions can operate at up to 64 Gb/s with an appropriate card. This motherboard is equipped with two M.2 slots and six SATA III ports for traditional hard drives. Additional features include:

- AMD StoreMI - Combines SSD and HDD storage into a hybrid drive to improve read/write speeds with larger capacity
- Storage Boost - Automatically checks and optimizes SSDs to keep them performing at their best
- M.2 Genie - Easily set up your M.2 SSDs in RAID 0 with less steps

### USB 3.2 Gen 1 & Gen 2

USB 3.2 Gen 1 features a maximum throughput of 5 Gb/s. USB 3.2 Gen 1, USB 3.1 Gen 1, and USB 3.0 are synonymous. Doubling the speed of its predecessor, USB 3.2 Gen 2 features a maximum throughput of 10 Gb/s when used with compatible devices and is synonymous with USB 3.1 Gen 2.

# Audio

The X570-A PRO is built with multiple hardware and software enhancements to improve sound quality including:

- Realtek ALC1220 Audio Processor - Supports DSD Super Audio CD 120 dB SNR/32-bit playback and recording
- Golden Audio Jack & S/PDIF - Ensures a better connection from devices
- Isolated Audio Design & Separated Audio Layers - Audio components and circuits on separate PCB layers are located on a reserved spot on the motherboard and electronically isolated to preserve audio integrity
- Nahimic 3 - Enhances audio playback and provides users with multiple audio adjustments including virtual 7.1-channel surround sound
- VoiceBoost - Lowers game audio when users are speaking for improved clarity
- De-Pop Protection - Prevents loud popping noises when devices are plugged/unplugged or when the system is turned on/off
- Dedicated Headphone Amplifier - Automatically detects impedance up to 600 Ohms for studio-grade sound quality

## Specifications

---

### MSI X570-A PRO Specs

#### CPU

Chipset AMD X570

CPU Socket AM4

#### Back Panel I/O

USB 4 x USB 3.1 / USB 3.2 Gen 2 Type-A  
2 x USB 2.0 Type-A  
1 x USB 3.1 / USB 3.2 Gen 2 Type-A  
1 x USB 3.1 / USB 3.2 Gen 2 Type-C

Thunderbolt *None*

Display 1 x HDMI

Audio 5 x 3.5 mm  
1 x S/PDIF

Ethernet / Controller 1 x Realtek 8111H Gigabit

PS/2 1 x Combo

Buttons BIOS Flashback

#### Memory

Memory Slots 4 x 288-Pin

Memory Support	DDR4 1866, 2133, 2400, 2667, 2800, 2933, 3000, 3066, 3200, 3466, 3600, 3733, 3866, 4000, 4133, 4266, 4400 MHz
Maximum Capacity	128 GB
Channel Architecture	Dual Channel
ECC Support	Non-ECC, ECC (Non-ECC Mode) Unbuffered

#### Storage Expansion

SATA	6 x SATA III
M.2	1 x M Key 2242, 2260, 2280, 22110 (PCIe 4.0 x4) 1 x M Key 2242, 2260, 2280 (PCIe 3.0 x4, SATA III)
U.2	<i>None</i>
RAID Support	RAID 0, 1, 10 (SATA)

#### Internal I/O

Expansion Slots	1 x PCIe 4.0 x16 (x16 mode) 1 x PCIe 4.0 x16 (x4 mode) 3 x PCIe 3.0 x1
USB	2 x USB 2.0 Header (Supports 4 USB Type-A Port) 2 x USB 3.1 / USB 3.2 Gen 1 Header (Supports 4 USB Type-A Port)
Multi-GPU Support	2-Way AMD CrossFireX
Air Cooling	1 x 4-Pin CPU 4 x 4-Pin System
Liquid Cooling	1 x 4-Pin Pump
Power Connectors	1 x 24-Pin Mainboard 1 x 8-Pin CPU 1 x 4-Pin CPU
Security	Chassis Intrusion, TPM Module
LED Header	4 x RGB
Audio	<i>None</i>
Diagnostics	Clear CMOS
Legacy	1 x Serial

#### Front Panel I/O

I/O Connection Headers AAFP, USB 3.1

#### Audio

Audio Codec Realtek ALC1220 (7.1-Channel)

#### Software

Supported Operating Systems Windows 10 (64-Bit)

### Physical

Form Factor ATX

Dimensions 9.6 x 12" / 243.84 x 304.80 mm

### Packaging Info

Package Weight 2.775 lb

Box Dimensions (LxWxH) 13.8 x 10.7 x 2.7"

## Additional Information

---

Brand	MSI
SKU	MSI X570-A PRO
Weight	5.0000
Processor Manufacturer	AMD
Chipset	X570

