ComX Computers
Product Specification Sheet

90MB0XG0-M0EAY0

Asus Prime X470-Pro AMD X470 Chipset AM4 Socket Motherboard

Product Overview

Asus Prime X470-Pro AMD X470 Chipset AM4 Socket Motherboard, 4 x DIMM, Max. 64GB, 1 x PS/2 keyboard/mouse combo port(s), 1 x DisplayPort, 1 x HDMI, 1 x LAN (RJ45) port(s), 2 x USB 3.1 Gen 2 (teal blue)Type-A, 1 x USB 3.1 Gen 1 USB Type-C, 5 x USB 3.1 Gen 1, 1 x Optical S/PDIF out, 5 x Audio jack(s), 2 x Aura RGB Strip Headers, 1 x USB 3.1 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 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 2242/2260/2280/22110 storage devices support (SATA mode & PCIE mode), 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (both SATA & x2 PCIE mode), 6 x SATA 6Gb/s connector(s), 1 x CPU Fan connector(s) (1 x 4 -pin), 1 x CPU OPT Fan connector(s) (1 x 4 -pin), 3 x Chassis Fan connector(s) (2 x 4 -pin), 1 x AIO_PUMP connector (1 x 4 -pin), 1 x W_PUMP+ connector (1 x 4 -pin), 1 x 24-pin EATX Power connector(s), 1 x 8-pin ATX 12V Power connector(s), 1 x Front panel audio connector(s) (AAFP), 1 x System panel(s) (Q-Connector) (Chassis intrusion header is inbuilt), 1 x Clear CMOS jumper(s), 1 x 14-1 pin TPM connector, 1 x COM port header, 1 x T_Sensor Connector, 1 x USB 3.1 Gen 2 front panel connector, ATX Form Factor, 30.5 cm x 24.4 cm



Specifications

Features:

Prime
ASUS Prime X470-Pro provides the solid foundation needed for your initial build, plus flexibility to grow with your ambitions. We've melded all the good stuff that's packed into the latest AMD Ryzen™ 2nd Generation processors with essential ASUS design and engineering, so you benefit from industry-leading technologies such as automated system tuning, comprehensive cooling controls, and immersive onboard audio. Build smart, easy and affordably, with ASUS Prime X470-Pro.

One-click overclock and cooling, done!
ASUS 5-Way Optimization makes your PC smart. One click takes care of complex tuning, dynamically optimizing essential aspects of the system to provide overclocking and cooling profiles that are tailored for your rig.

- An automated tuning utility that optimizes overclocking and cooling profiles for your unique system configuration.
- Fans stay whisper-quiet with everyday computing, and deliver optimal airflow when the system is crunching through CPU or GPU-intensive tasks.
- Stress test function helps optimize and overclock for CPU- or memory-centric workloads.

Make your memory faster
Featuring an array of trace layout tweaks that improve memory stability, Prime X470-Pro provides a potent foundation for your

build. With comprehensive support for the full gamut of Ryzen memory configurations - from entry-level to performance-oriented - Prime X470-Pro is a versatile all-rounder that can work or play.

Cooler by design
Prime X470-Pro features the most comprehensive cooling controls ever, configurable via Fan Xpert 4 or the UEFI BIOS.

Multiple temperature sources
Each header can be set to monitor and react to three thermal sensors, and via Fan Xpert 4 you can even assign a sensor to monitor the temperature of supported ASUS graphics cards - for optimal cooling during GPU- or CPU-intensive workloads.

Water pump+
A dedicated header that can supply over 3A to high-performance PWM or DC water pumps.

AIO pump
Dedicated PWM/DC header for self-contained water-cooling setup, built right in.

4-pin PWM/DC fan
Each onboard header supports auto-detection of PWM or DC fans.

Smart protection
A dedicated integrated circuit protects each fan header from over-temperature and over-current.

Outshine the competition
Prime X470-Pro features ASUS Aura RGB for illumination that's aesthetic or informative. The choice is yours. ASUS Aura software offers control over hundreds of colors and dozens of effects. Use it to control built-in LEDs or LED strips and other Aura Sync-compatible gear connected to the onboard headers. Create a glow to match your environment, or have the LEDs react to changes in CPU temperature.

Keep your SSD cooler
Prime X470-Pro has an ultra-efficient heatsink to reduce M.2 SSD temperatures by up to 20 degreesC - and that means optimal storage performance and improved SSD longevity.

Protect your graphics card investment
SafeSlot is the PCIe slot reinvented by ASUS and engineered to provide superior retention and shearing resistance. Manufactured in a single step using a new insert-molding process, SafeSlot integrates the slot with fortifying metal for an inherently stronger slot, which is then firmly anchored to the PCB through additional solder points.

Media-acclaimed UEFI BIOS
The smoothest, slickest mouse-controllable 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 will help you quickly find your way, quickly and easily.

EZ Mode
Designed for easy setup, EZ Mode presents all the vital settings and stats on a single page. With guided wizards, drag-and-drop simplicity, and one-click convenience to apply important settings, your rig will be up and running in no time.

Advanced Mode
When you're ready to take a deeper dive into the configuration of your gaming rig, Advanced Mode grants total control. Each section is intuitively organized, and a built-in search feature makes it easy to find the option you need. Tweak cooling parameters, save profiles, apply overclocks, and unleash the full potential of your 2nd Generation Ryzen processor.

EZ Mode

- Intuitive Graphical Fan Control - Fine-tune individual fans by simply dragging a curve with the mouse.

- EZ XMP - Improve DRAM performance with one click.
- SATA Information - Display SATA port details that help easily recognize drives.
- Fast Clock Adjustment - Use mouse controls to change the time and date.

Advanced Mode

- Search Function - Quickly and easily find the option or setting you're looking for.
- ASUS BIOS Profile - Save BIOS settings for migration to new BIOS version or system.
- EZ Tuning Wizard - Rapidly configure a RAID array for faster data retrieval and backups.
- My Favorites - Quickly discover tuning options and add preferred tools to the list.
- GPU POST - View recommendations for multi-VGA configurations and detailed information for selected ASUS graphics cards.
- Last Modified Log - Track the last change and save preferred profiles onto a USB drive.
- SATA Port Renaming - Rename SATA ports for easy identification.

Speed up with onboard M.2 - up to 32Gbps
With x4 PCI Express® 3.0/2.0 bandwidth, M.2 supports up to 32Gbps data-transfer speeds. It's the perfect choice for an operating system or application drive, providing fast access to data.

Native M.2/NVMe PCIe RAID
With X470-Pro you're free to join the storage fast lane and build a RAID 0 array using two PCIe drives to experience accelerated data transfers.

Future-proof connectivity
Prime X470-Pro's front panel USB 3.1 Gen 2 connector is ready for next-gen PC cases and devices.

Ultimate-speed 10Gbps with USB 3.1 Gen 2 onboard
With backward-compatible USB 3.1 Gen 2 Type-A™, you'll experience ultimate connection flexibility and blazing data-transfer speeds of up to 10Gbps - twice as fast as standard USB 3.1 Gen 1.

More throughput, less CPU usage and great gaming experiences
Prime X470-Pro features the very latest Intel Ethernet. Intel's LAN has the advantage of reducing CPU overhead and offering exceptionally high TCP and UDP throughput for faster, smoother data transfer.

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.

Network-optimization software for customizable packet prioritization
Turbo LAN with cFosSpeed traffic-shaping technology allows you to configure application priority via an intuitive interface, and reduces network lag.

Realtek codec and unique design features for pristine, powerful audio
Prime X470-Pro utilizes a unique audio codec designed in close collaboration with Realtek - the Realtek S1220A. It also features an unprecedented 120dB signal-to-noise ratio for the stereo line-out and a 113dB SNR for the line-in, providing pristine audio quality. Additionally, a new impedance-sensing circuit automatically adjusts gain to ensure the optimal volume range for your headphones.

Audio shielding
Separates analog/digital signal domains, significantly reducing multi-lateral interference.

Integrated amplifier
Capable of driving high-impedance headphones, without rolling-off high or low frequencies.

Separate layer for left and right tracks
Ensures minimal crosstalk between audio paths.

Premium Japanese-made audio capacitors
Premium parts provide an immersive sound signature, with exceptional fidelity.

AMD X470 chipset
The AMD X470 chipset delivers outstanding overclocking capabilities for the latest AMD® AM4-socket Ryzen™ processors, 7th Generation A S-series APUs and Athlon™ CPUs. It is optimized for multiple GPU configurations including NVDIA SLI™ and AMD CrossFireX™. It also provides two 10Gbps USB 3.1 Gen 2 ports and eight 6Gbps SATA ports for faster data retrieval.

AM4 socket for AMD Ryzen 2nd Generation/ Ryzen with Radeon VEGA Graphics/ Ryzen 1st Generation/ 7th Generation A- Series/ Athlon X4 Processors
The high-performance Ryzen processor supports up to eight cores, and is based on the innovative Zen core architecture. Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics/ 7th Generation A-Series APU. AMD AM4-socket processors feature dual-channel DDR4 memory, native 5Gbps USB 3.1 Gen 1 and 16 PCI Express® 3.0/2.0 lanes for superb performance.

Specifications:

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Specifications	
Product Code	90MB0XG0-M0EAY0
CPU	AMD AM4 Socket AMD Ryzen 2nd Generation/Ryzen with Radeon Vega Graphics/Ryzen 1st Generation/7 Generation A-series/Athlon X4 Processors
	Supports CPU up to 8 cores
Chipset	AMD X470
Memory	AMD Ryzen 2nd Generation Processors
	4 x DIMM, Max. 64GB, DDR4 3600(O.C.) / 3466(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Un-buffered Memory
	AMD Ryzen with Radeon Vega Graphics/ Ryzen 1st Generation Processors
	4 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
	4 x DIMM, Max. 64GB, DDR4 2400/2133 MHz Un-buffered Memory
	Dual Channel Memory Architecture
	ECC Memory (ECC model) support varies by CPU.

Graphic	Integrated Graphics in the AMD Ryzen with Radeon Vega Graphics/ 7th Generation A-Series APU
	Multi-VGA output support : HDMI/DisplayPort ports
	- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
	- Supports DisplayPort 1.2 with max. resolution 4096 x 2160 @ 60 Hz
	Maximum shared memory of 2048 MB (for iGPU exclusively)
Multi-GPU Support	AMD Ryzen 2nd Generation/Ryzen 1st Generation Processors
	Supports NVIDIA 2-Way SLI Technology
	Supports AMD CrossFireX Technology
	AMD Ryzen with Radeon Vega Graphics/AMD 7th Generation A-Series/Athlon X4 Processors
	Supports AMD CrossFireX Technology
Expansion Slots	AMD Ryzen 2nd Generation/ Ryzen 1st Generation Processors
	2 x PCIe 3.0 x16 (x16 or dual x8)
	AMD Ryzen with Radeon Vega Graphics /7th Generation A-Series/Athlon X4 Processors
	1 x PCIe 3.0 x16 (x8 mode)
	AMD X470 chipset
	1 x PCIe 2.0 x16 (max at x4 mode)
	3 x PCIe 2.0 x1
Storage	AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Ryzen 1st Generation Processors :
	1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)
	AMD 7th Generation A-Series/Athlon X4 Processors :
	1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA mode)
	AMD X470 chipset :
	1 x M.2 Socket 3, with M Key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 x 2 mode)
	6 x SATA 6Gb/s port(s)
	Support Raid 0, 1, 10
LAN	Intel I211-AT

Audio	Realtek S1220A 8-Channel High Definition Audio CODEC featuring Crystal Sound 3
	- Impedance sense for front and rear headphone outputs
	- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers
	- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
	- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in)
	- Front panel audio connector (AAFP)
	Audio Feature :
	- Optical S/PDIF out port(s) at back panel
	- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
	- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals
	- Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity
	- EMI protection cover to prevent electrical noise to affect the amplifier quality
USB Ports	AMD Ryzen 2nd Generation/ Ryzen with Radeon Vega Graphics/ Ryzen 1st Generation/7th Generation A-Series/Athlon X4 Processors :
	4 x USB 3.1 Gen 1 port(s) (4 at back panel, blue, Type-A)
	AMD X470 chipset :
	1 x USB 3.1 Gen 2 front panel connector port(s)
	AMD X470 chipset :
	4 x USB 3.1 Gen 1 port(s) (2 at back panel, blue, Type-A + USB Type-C, 2 at mid-board)
	AMD X470 chipset :
	4 x USB 2.0 port(s) (4 at mid-board)
	ASMedia USB 3.1 Gen 2 controller :
	2 x USB 3.1 Gen 2 port(s) (2 at back panel, teal blue, Type-A)

Special Features	5-Way Optimization by Dual Intelligent Processors 5
	- Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 4, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages.
	Fan Xpert4
	- Fan Xpert 4 featuring Fan Auto Tuning function and multiple thermistors selection for optimized system cooling control
	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: 10 Phase digital power design
	- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
	- ASUS ESD Guards - Enhanced ESD protection
	ASUS TPU :
	- Auto Tuning
	ASUS EPU :
	- EPU
	AURA :
	- Aura Lighting Control
	ASUS Exclusive Features :
	- AI Suite 3
	- Ai Charger
	- Turbo LAN
	ASUS Quiet Thermal Solution :
	- Stylish Fanless Design Heat-sink solution & MOS Heatsink
	- ASUS Fan Xpert 4
	ASUS EZ DIY :
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	ASUS Q-Design :
	- ASUS Q-Shield
	- ASUS Q-Slot
	- ASUS Q-DIMM
	- ASUS Q-Connector

	Turbo APP
	- featuring system performance tuning for selected applications
Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s)
	1 x DisplayPort
	1 x HDMI
	1 x LAN (RJ45) port(s)
	2 x USB 3.1 Gen 2 (teal blue)Type-A
	1 x USB 3.1 Gen 1 USB Type-C
	5 x USB 3.1 Gen 1
	1 x Optical S/PDIF out
	5 x Audio jack(s)
Internal I/O Ports	2 x Aura RGB Strip Headers
	1 x USB 3.1 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 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 2242/2260/2280/22110 storage devices support (SATA mode & PCIE mode)
	1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (both SATA & x2 PCIE mode)
	6 x SATA 6Gb/s connector(s)
	1 x CPU Fan connector(s) (1 x 4 -pin)
	1 x CPU OPT Fan connector(s) (1 x 4 -pin)
	3 x Chassis Fan connector(s) (2 x 4 -pin)
	1 x AIO_PUMP connector (1 x 4 -pin)
	1 x W_PUMP+ connector (1 x 4 -pin)
	1 x 24-pin EATX Power connector(s)
	1 x 8-pin ATX 12V Power connector(s)
	1 x Front panel audio connector(s) (AAFP)
	1 x System panel(s) (Q-Connector) (Chassis intrusion header is inbuilt)
	1 x Clear CMOS jumper(s)
	1 x 14-1 pin TPM connector
	1 x COM port header
	1 x T_Sensor Connector
	1 x USB 3.1 Gen 2 front panel connector

Accessories	User's manual
	ASUS Q-Shield
	2 x SATA 6Gb/s cable(s)
	1 x M.2 Screw Package
	1 x Supporting DVD
	1 x SLI HB BRIDGE(2-WAY-M)
	1 x Q-connector(s) (1 in 1)
BIOS	256 Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.0, ACPI 6.0, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log, F12 PrintScreen, F4 AURA ON/OFF, F9 Search and ASUS DRAM SPD (Serial Presence Detect)memory information
Manageability	WOL by PME, PXE
Operating System	Windows 10 64-bit
Form Factor	ATX Form Factor
	12.0 inch x 9.6 inch (30.5 cm x 24.4 cm)
Note	*1.The PCIe x16_3 slot shares bandwidth with PCIe x1_1 and PCIe x1_3
	*2 The M.2_2 socket shares PCIe clock with PCIe x1_1. When PCIe x1_1 or PCIe x1_3 is occupied, the M.2_2 socket can only support SATA mode.
	*3 Supports PCIe RAID configurations via onboard M.2 storages.

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/90MB0XG0-M0EAY0-Asus-Prime-X470-Pro-AMD-X470-Chipset-AM4-Socket-Motherboard-p-197026.php

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