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Asus Prime X370-PRO X370 Chipset AMD AM4 Socket Motherboard

Product Overview

Asus Prime X370-PRO X370 Chipset AMD AM4 Socket Motherboard, 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), 1 x Aura RGB Strip Header, 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), 8 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), 2 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 USB 3.1 Gen 2 front panel connector, ATX Form Factor, 30.5 cm x 24.4 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.

Get performance, efficiency, digital power, fan control, networking and audio tuning - all tailored with just one click.
ASUS 5-Way Optimization makes your PC smart. It dynamically optimizes essential aspects of your system based on real-time usage - so you get superb CPU performance, everyday energy savings, ultra-stable digital power, cool and quiet fans, and now networking and audio settings that are tailored to your apps. In short, 5-Way ASUS Optimization ensures that your PC is perfect for gaming, entertainment and productivity!

- Games run swiftly and smoothly with high performance, prioritized bandwidth and vivid sound.
- Fans stay whisper-quiet for everyday computing, and ensure extreme cooling efficiency when gaming.
- Stutter is eliminated for smooth-running apps, even under heavy loading.
- Energy=-conserving design saves your money.

TurboV Processing Unit

Unleash your PC's full performance with the ASUS AI Suite 3 utility! The TurboV Processing Unit (TPU) offers precise voltage control and advanced monitoring for the CPU and graphic cards, allowing the freedom to adjust CPU frequencies and ratios so you can optimize performance and maximize the potential of your graphics card*.

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

Fan Xpert 4
ASUS Prime X370-Pro features the most comprehensive fan controls ever, configurable via Fan Xpert 4 and UEFI BIOS.

Multiple temperature sources
Each header monitors and reacts to three thermal sensors that can now also sense temperature on ASUS graphics cards.

AIO Pump & Water Pump+ water-cooling set
Full control of PWM or DC water pumps, perfect for both custom and self-contained cooling setups.

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

Smart protection
A dedicated integrated circuit protects each fan header from over-heating and overcurrent.

Comprehensive fan controls
Fan speeds, hysteresis, and fan-stop modes on every header can be fully controlled via Fan Xpert 4 or the UEFI BIOS.

Auto-Tuning mode
All fan parameters can be scanned with a single click.

Extreme Quiet mode
All fan speeds automatically adjust to below the default minimum, for extra-quiet operation and power savings during light loads.

Digi+ Power Control
Power control is a vital aspect of motherboard design. Intelligent CPU-power-draw detection with ASUS Digi+ Power Control is an innovative, industry-leading technology that fully complies with AMD® SVI2 specifications, increasing overclocking potential, enhancing system stability, and improving power efficiency with superior flexibility.

Turbo App
Whether you're a professional designer or hardcore gamer, you'll feel the benefit of the ASUS-exclusive Turbo App every day. Its intuitive tuning panel boosts a range of hardware, overclocking your CPU, tuning your fans, prioritizing network data and optimizing audio settings - all with automated ease!

SLI HB bridge (2-WAY-M)
The new ASUS SLI HB bridge doubles the available transfer bandwidth to provide silky-smooth surround gaming. Compatible with NVIDIA® Titan X, GeForce GTX 1080 and GeForce GTX 1070 graphics cards, SLI HB bridge is your fast track to gaming greatness.

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.

10Gbps USB 3.1 front-panel connector
With backward-compatible USB 3.1 Type-A and reversible USB 3.1 Type-C front-panel connectors, you'll experience ultimate connection flexibility and blazing data-transfer speeds of up to 10Gbps - that's twice as fast as standard USB 3.0.

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
Flash the latest BIOS via the internet - from within the BIOS!

S.M.A.R.T
Check your storage device Self-Monitoring, Analysis, and Reporting Technology logs to gauge reliability and determine potential failures.

EZ Tuning Wizard
Select your hardware and apply different scenarios to tune system performance, or streamline your RAID configuration for faster data retrieval and backups!

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 - Display SATA port details for easier device identification.
- Fast clock adjustment - Use mouse controls to quickly change time and date settings.

Advanced mode

- GPU POST - See recommendations for multi-VGA configuration and detailed information for selected ASUS graphics cards.
- Last modified log - Track last change and save preferred profiles onto a USB drive.
- SATA port renaming - Rename SATA ports for easy identification.

ASUS Aura Sync technology for distinctive lighting effects
Aura Sync takes RGB lighting beyond the checkbox, combining and controlling the LEDs of your Aura-enabled products from a single application - so you can achieve perfect, synchronized lighting harmony. Aura lets you sync light effects across your graphics card, Prime X370-Pro motherboard, and an ever-growing portfolio of Aura-enabled products.

ASUS Aura lighting control
A well-tuned system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for built-in RGB LEDs as well as LED strips connected to the onboard 4-pin RGB headers - all of which can be synced with an ever-growing portfolio of Aura Sync-capable ASUS hardware.

Realtek codec and unique design features for pristine, powerful audio
ASUS Prime X370-Pro utilizes a unique audio codec designed in close collaboration with Realtek. The Realtek S1220A 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.

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

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

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

Premium Japanese-made audio capacitors
Provide warm, natural, and immersive sound with exceptional clarity and fidelity.

More throughput and less CPU usage for great gaming performance
Prime X370-Pro features the very latest Intel® Ethernet for faster, smoother gaming. Intel's LAN has the serious double advantage of reducing CPU overhead and offering exceptionally high TCP and UDP throughput. This significantly reduces the processor's workload, so there's more power for your game!

Network-optimization software for customizable packet prioritization
Turbo LAN with cFosSpeed traffic-shaping technology adds even more lag-reducing support and an intuitive user interface. It allows you to lower lag with no expert knowledge - by up to 1.45x! If you're a tweaker, use Advanced mode for hardcore controls.

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 to integrate the slot with fortifying metal support for an inherently stronger design, SafeSlot is then firmly anchored to the motherboard through additional solder points.

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
Prime 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. Each component is electrostatically guarded and surge-protected 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 motherboard 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 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.

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 a Qualified Vendor List for compatible memory
The superior compatibility of Prime X370-Pro 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.

Exceptional compatibility
ASUS components are the perfect complement for your Prime X370-Pro motherboard because we design products from the ground up to ensure that everything works together perfectly - and that of course includes easy synchronization with ASUS Aura Sync-capable gear.

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.

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 voltages 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.

Easier DIY, Every Day
From assembly, system settings and monitoring, to firmware and hardware updates - ASUS strives to provide the best user experience. That's why we never stop developing new and exciting DIY opportunities to make PC DIY easy, fun and hassle-free!

Specifications:

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Specifications	
Product Code	90MB0TD0-M0EAY0
CPU	AMD AM4 Socket for AMD Ryzen /7 Generation A-series/Athlon Processors
	Supports AM4 Socket 14 nm CPU
	Supports CPU up to 8 cores
Chipset	AMD X370
Memory	AMD Ryzen Processors
	4 x DIMM, Max. 64GB, DDR4 3200(O.C.)/2933(O.C.)/2666/2400/2133 MHz ECC and non-ECC, Un-buffered Memory
	AMD 7th Generation A-series/Athlon Processors
	4 x DIMM, Max. 64GB, DDR4 2400/2133 MHz Non-ECC, Un-buffered Memory
	Dual Channel Memory Architecture

Graphic	Integrated AMD Radeon R Series Graphics in the 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
Multi-GPU Support	Supports NVIDIA 2-Way SLI Technology
	Supports AMD CrossFireX Technology
Expansion Slots	AMD Ryzen Processors
	2 x PCIe 3.0/2.0 x16 (x16 or dual x8)
	AMD 7th Generation A-series/Athlon Processors
	1 x PCIe 3.0/2.0 x16 (x8 mode)
	AMD X370 chipset
	1 x PCIe 2.0 x16 (max at x4 mode)
	AMD X370 chipset
	3 x PCIe 2.0 x1
Storage	AMD Ryzen 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 Processors :
	1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 2 mode)
	AMD X370 chipset :
	8 x SATA 6Gb/s port(s), gray
	Support Raid 0, 1, 10
LAN	Intel I211-AT, 1 x Gigabit LAN Controller(s)
	ASUS Turbo LAN Utility
	ASUS LAN Guard

Audio	Realtek S1220A 8-Channel High Definition Audio CODEC
	- Impedance sense for front and rear headphone outputs
	- 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 :
	- 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
USB Ports	AMD Ryzen /7th Generation A-series/Athlon Processors :
	4 x USB 3.0 port(s) (4 at back panel, blue, Type-A)
	AMD X370 chipset :
	1 x USB 3.1 Gen 2 front panel connector port(s)
	AMD X370 chipset :
	4 x USB 3.0 port(s) (2 at back panel, blue, Type-A + USB Type-C, 2 at mid-board)
	AMD X370 chipset :
	4 x USB 2.0 port(s) (4 at mid-board)
	ASMedia USB 3.1 Gen 2 controller :
	2 x USB 3.1 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.
	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
	- Aura RGB Strip Headers
	- Aura Lighting Effects Synchronization with compatible ASUS ROG devices
	ASUS Exclusive Features :
	- AI Suite 3
	- Ai Charger
	- Turbo LAN
	- PC Cleaner
	ASUS Quiet Thermal Solution :
	- Stylish Fanless Design Heat-sink solution & MOS Heatsink
	- ASUS Fan Xpert 4
	ASUS EZ DIY :
	- ASUS O.C. Profile
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	- Multi-language BIOS
	ASUS Q-Design :
	- ASUS Q-Shield
	- ASUS Q-Slot
	- ASUS Q-DIMM
	- ASUS Q-Connector
	Overclocking Protection :
	- ASUS C.P.R.(CPU Parameter Recall)
	Turbo App
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	1 x Aura RGB Strip Header
	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)
	8 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)
	2 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 USB 3.1 Gen 2 front panel connector
Accessories	User's manual
	ASUS Q-Shield
	4 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	128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 6.1, 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, and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 3.0, 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)

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/90MB0TD0-M0EAY0-Asus-Prime-X370-PRO-X370-Chipset-AMD-AM4-Socket-Motherboard-p-184153.php

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