ComX Computers
Product Specification Sheet

MB-AX370PPR

Asus X370 Prime PRo X370 Chipset AM4 Motherboard

Product Overview

Asus X370 Prime PRo - Aura Sync + RGB LED on PCB + RGB header with 12 colors scheme, dual intelligent processors5 (for TPU, EPU, DiGi+ VRM, FanExpert4+, turbo app) with 5-Way protection (Safeslot, LANGaurd, OVP, Stainless steel backplate, DiGi+ VRM, DRAM OCP, ESD Gaurd), asus CPR (cpu parameter recall), for Amd AM4 Ryzen/ 7th gen A-series/ Athlon processors, AMD X370 Chipset, 6x SATA6G with raid 0/1/0+1/10, DP 1.2 + HDMi 1.4b, Realtek ALC S1220A 7.1 audio (with 120 dB SNR playback + 113 dB SNR recording + dedicated audio pcb layers + optical s/pdif out) + Intel i211-AT Gigabit LAN; 3x pci-e 2.0 (1x), 3x USB3.1 type-A + 1x USB3.1 type-C + 4x USB3.0, support optional serial port add-on cable, 1x PS2, atx, with optional Ryzen cpu, 4x dual channel DDR4-3200(O.C)/2666 up to 64Gb, 1x 32Gb/sec M.2/NGFF type22110 (PCIe3.0 x4 or SATA) SSD socket, 3x pci-e 16x (@8x+8x+4x) with CrossfireX + SLi support, with optional A-Series/ Athlon cpu - 4x dual channel DDR4-2400/2133 up to 64Gb, 1x 32Gb/sec M.2/NGFF type22110 (PCIe3.0 x2 or SATA) SSD socket, Radeon R on-board multi-VGA up to 2048mb, 3x pci-e 16x (@8x+4x) with CrossfireX support (no SLi)



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.

Fan Xpert 4

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

DDR4 Support
With DDR4, you'll accelerate memory frequencies up to an incredible to 3200MHz! And ASUS works with almost every DDR4 memory vendor, so you're assured the best compatibility

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
Hardware safeguards to ensure long-term durability.

350+ DDR4 Compatibility
Industry-leding DDR4 memory compatibility for best flexbility and reassurance.

1000+ Compatible Devices
Compatibility with a range of CPUs, memory modules, graphics cards and more.

8000+ Validation Hours
Extensive testing with latest components for enhanced reliability, compatibility and safety.

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!

Ready for AMD AM4-socket Ryzen, 7th Generation A-series APUs and Athlon CPUs
This motherboard supports AMD® RyzenTM processors, 7th Generation A-series accelerated processing units (APUs) and AthlonTM CPUs. The high-performance RyzenTM processor supports up to eight cores, and is based on the innovative Zen core architecture . The 7th Generation A-series APUs feature integrated AMD Radeon R-series graphics. AMD AM4-socket processors feature dual-channel DDR4 memory, native 5Gbps USB 3.0 and 16 PCI Express® 3.0/2.0 lanes for superb performance.

AMD X370 Chipset
The AMD X370 chipset delivers outstanding overclocking capabilities for the latest AMD® AM4-socket RyzenTM processors, 7th Generation A-series APUs and AthlonTM CPUs. It is optimized for multiple GPU configurations including NVDIA SLITM and AMD CrossFireXTM. It also provides two 10Gbps USB 3.1 ports and eight 6Gbps SATA ports for faster data retrieval.

Specifications:

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 ALC 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 front panel connector port(s)
	AMD X370 chipset :
	4 x USB 3.0 port(s) (2 at back panel, blue, Type-A + Type-C, 2 at mid-board)
	AMD X370 chipset :
	4 x USB 2.0 port(s) (4 at mid-board)
	ASMedia USB 3.1 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 (teal blue)Type-A
	1 x USB 3.0 Type-C
	5 x USB 3.0
	1 x Optical S/PDIF out
	5 x Audio jack(s)

Internal I/O Ports	1 x Aura RGB Strip Header
	1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 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 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/MB-AX370PPR-Asus-X370-Prime-PRo-X370-Chipset-AM4-Motherboard-p-156620.php

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