ComX Computers
Product Specification Sheet

MB-AX370SF

Asus X370 Strix X370-F AMD B350 Chipset AM4 Motherboard

Product Overview

Asus X370 Strix X370-F - with 3D-printing-friendly design for various add-on parts, Aura Sync + RGB led on hestsink+ back I/O + 2x header with 9 colours scheme, 5-Way protection (Safeslot, LANGaurd, OVP, Stainless steel backplate, DiGi+ VRM) - for AMD AM4 Ryzen/ 7th gen A-series/ Athlon processors, AMD B350 Chipset, 6x SATA6G with raid 0/1/0+1/10, HDMi + DisplayPort, Realtek SupremeFX S1220A 7.1 audio (with dedicated audio pcb layers + LED trace path + optical s/pdif out) + Intel i211-AT Gigabit LAN; 2x pci-e 2.0 (1x), 1x USB3.1 type-A + 1x USB3.1 type-C + 6x USB3.0 + 2x USB2.0, 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 3.0x16x (@8x+8x+4x) with Crossfire X + SLi support - with optional A-Series/ Athlon CPU - 4x dual channel DDR4-2400/2133 up to 64Gb, 1x 32Gb/sec M.2/NGFF type22110 (SATA mode only) SSD socket, Radeon R on-board multi-VGA up to 2048mb, 3x pci-e 3.0x16 (@8x+4x) Crossfire X + SLI support



Specifications

Overview:

ROG Strix X370-F Gaming motherboards continue the proud legacy of the Pro Gaming series with acclaimed ROG innovations. ROG Strix X370-F Gaming motherboards combine bold aesthetics with premier performance and incredible audio to deliver unrivaled gaming experiences and style. Support for the latest AMD processors and technologies, plus exclusive ROG innovations, take performance to the next level to give you the edge against opponents. ROG Strix X370-F Gaming charges every movement of every game with thrilling energy and equips you with epic speed and agility. Join the Republic with ROG Strix X370-F Gaming and dominate your game!

Features:

Aura lighting control
Create your own custom LED lighting effects with the intuitive Aura software. Cast a stunning multi-color glow across your build with the powerful RGB LEDs built in to ROG Strix X370-F Gaming, or attach separate RGB strips using the two onboard 4-pin headers. You can even use both at the same time and enjoy perfect lighting synchronization. Fire up Aura and enjoy the creative freedom of nine different lighting themes.

Outshine the competition
ASUS Aura Sync RGB LED technology makes ROG Strix X370-F Gaming the control hub for your illumination ambitions - so it's easy to synchronize incredible lighting effects between compatible components, including RGB LED strips, graphics cards, keyboards and even mice! Change all LEDs in unison or employ dynamic modes to flow the illumination effects smoothly

across all synchronized devices.

Shielded audio, superior sound
ROG Strix's SupremeFX audio technology has levelled up, delivering an exceptional 113dB signal-to-noise ratio on the line-in connection for best-ever recording quality - and 120dB on line-out for crystal-clear sound! We've also added a low-dropout regulator for cleaner power delivery to the SupremeFX S1220A codec, plus Texas Instruments® RC4580 and OPA1688 op-amps for high gain with low distortion. It all adds up to audio that envelops you as never before!

Audio cover
Effective shielding preserves the integrity of audio signals for the best quality.

Dual Op Amplifiers
With two op-amps onboard you're able to pump exceptional audio to your favorite cans, with 32-600ohm-headphone impedance for great flexibility.

Premium Nichicon™ audio capacitors
Fine-quality Japanese-made components that produce a warmer, natural sound with exceptional clarity and fidelity.

Audio line shielding
Blocks electromagnetic interference from the motherboard or add-ons to provide cleaner audio.

Sonic Studio III
ROG Strix's Sonic Studio III audio-effects station has an intelligent routing feature made for streaming. The new routing feature ports streams to different outputs giving you full control over who hears what. With Sonic Studio III, you now can share your exciting in-game moments without worrying about frivolous DCMA takedown requests. In addition to that, Sonic Studio III also comes with app-level preferences for instant audio profiles, and improved noise filtering for conversations with total clarity!

App-specific profiles
Apply customized audio settings to different applications, so everything you do is perfectly tuned to the way you want to listen.

Noise filter
Automatically detects and eliminates unwanted background noises, ensuring that your communications are loud and clear.

Sonic Radar III
We've given Sonic Radar III an overhaul, evolving the audio engine to process sounds more accurately than ever, ensuring you're always aware of what's going on around you - and we've even added an onscreen arrow to help you pinpoint the enemy's position instantly! See the origin of key in-game sounds and hone your enemy-pinpointing skills. Plus the new audio boost feature provides filters that let you hear even the faintest sounds, so you can become the hunter, not the hunted!

Improved Audio Algorithm
The new Sonic Radar III audio algorithm is now even more accurate to allow enemies to be pinpointed with even more accuracy.

3D Engine
Sonic Radar III is built around it's all new HUD with an in-game 3 dimensional arrow for a more intuitive experience.

Audio Boost
The new audio boost feature now allows the boosted audio to be heard directly.

Audio Radar
Sonic Radar III is effective regardless of surrounding noise and chaos.

ASUS PRO CLOCK TECHNOLOGY
A dedicated base-clock generator designed for AM4 processors allows overclocked base clock frequencies up to or beyond 158MHz*. This custom solution works in tandem with the ASUS TurboV Processing Unit (TPU) to enhance voltage and base-clock overclocking control - providing an exciting new way to boost performance to extreme heights.

DDR4 OVERCLOCKING STRENGTH IN NUMBERS
With support for DDR4 memory, ROG Strix X370-F Gaming lets you drive memory frequencies to 3200MHz and beyond when overclocked! ASUS-exclusive T-Topology circuit design provides superb memory-overclocking capability to unleash the full power of DDR4 by minimizing coupling noise and signal reflection. With innovative equidistant memory channels, T-Topology delivers balanced control and powerful overclocking compatibility.

GET PERFORMANCE, EFFICIENCY, DIGITAL POWER, FAN CONTROL AND EVEN NETWORKING AND AUDIO TUNING TAILORED FOR YOU - AND THE WAY YOU PLAY!!
You don't need to be an expert to max out gaming performance on your ROG Strix X370-F Gaming build - because 5-Way Optimization sorts all the complex settings with a click, for instant, highly-controllable performance boosts! Our exclusive technology dynamically optimizes essential aspects of your system based on real-time use, so you get superb CPU performance, everyday energy savings, ultra-stable digital power, cool and quiet fans and even networking and audio settings that are tailored for the apps that you are using. In short, 5-Way Optimization ensures that your PC is perfect for gaming, entertainment, productivity or just about anything else!

- 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, ensuring smooth-running apps -- even under heavy loading.
- Energy efficiency is improved, so you'll save money.

Cooler by design
Play quieter and cooler with advanced fan and water-pump controls for the ultimate in undisturbed gaming. With onboard thermal sensors and hardware-level 4-pin/3-pin PWM/DC mode detection, Fan Xpert 4 makes sure every fan achieves the best balance of high cooling performance and low noise -- so you enjoy all the performance you demand with none of the racket!

SPEED YOUR GAME LOADS
Uniquely intelligent technology that effectively caches an entire storage device so that favorite games and apps launch at breakneck speeds, getting to work the moment it's activated. RAMCache II turns milliseconds into microseconds to boost game-load times -- and of course it's compatible with the latest NVM Express storage options!

AWARD-WINNING BIOS DESIGN
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, the EZ and Advanced Modes help you find your way. In EZ Mode you can get set up very quickly, applying the date and time, fan profiles and Intel Extreme Memory Profile (XMP) memory profiles. Switch to Advanced Mode to set up favorites and shortcuts, record and review recent changes with Last Modified or make notes in Quick Notes.

CrashFree BIOS 3
Never again worry about corrupted BIOS, as CrashFree BIOS 3 lets you restore a PC to working order - even when it won't boot!

EZ Flash 3
Update the latest BIOS via the internet or from within the system BIOS.

More throughput and less processing equals faster online play
ROG Strix X370-F Gaming features the very latest Intel® Ethernet Controller I211-AT for faster, smoother gaming. Intel's LAN has the serious double advantage of reducing CPU overhead and offering exceptionally high TCP and UDP throughput, so

there's more power for your game and your gameplay.

PUMPED-UP THROUGHPUT, BEST SURGE PROTECTION
LANGuard means safer, more reliable connections for your battles! Advanced signal-coupling technology and premium surface-mounting processes join forces to protect your ROG Strix X370-F Gaming connection and deliver pumped-up throughput, plus electrostatically guarded and surge-protected components (ESD Guards) for 1.9x-greater tolerance to static electricity and 2.5x-greater protection (up to 15KV) against surges!

TEAM UP TO BANISH LAG
GameFirst IV optimizes network traffic for faster, lag-free online gaming - and now we've added Multi-Gate Teaming to team all your networks for maximum bandwidth and the smoothest-ever gameplay. You'll also enjoy all-new Intelligent mode, which automatically compiles a database by parsing new app data to ensure that every game is optimized for the best performance.

Super-speed connectivity, right where you need it
USB-C is the latest USB connector technology - and ROG Strix X370-F Gaming lets you put it right where you need it! You'll experience ultimate connection and blazing data-transfer speeds of up to 10Gbps - that's twice as fast as standard USB 3.1 Gen 1.

Let your SSD scream at speeds of up to 32Gbps
With x4 PCI Express® 3.0/2.0 bandwidth, M.2 supports up to 32Gbps* data-transfer speeds. It is the perfect choice for an operating system or application drive, making your whole gaming PC or professional apps work as fast as possible.

Ultimate 10Gbps data speeds
With one USB 3.1 Type-A port and one reversible USB 3.1 Type-C™ port, you'll experience data-transfer speeds of up to 10Gbps - twice as fast USB 3.0. USB 3.1 is also completely backward-compatible with existing USB devices, so you'll be set for breakneck USB 3.1 speeds with every connection. And as an added bonus, ASUS-exclusive USB 3.1 Boost technology automatically accelerates USB 3.1 performance even further.

Stay in the game
Overwolf is a clever, unobtrusive overlay that lets you browse the internet, email, IM, and stream or record gameplay - all while you're in the game. Color-matched ROG skins that display your status as a member of an elite pack are also available for download from the Overwolf App Store.

Image your drives, the smart way
All-new ROG Clone Drive is the smart, convenient cloning solution that quickly and efficiently replicates hard drives or SSDs. Clone Drive is so smart that it can clone one drive to two target drives at the same time, or image any file from your disk at breakneck speeds.

Make It Your Own
ASUS is the first motherboard manufacturer to support 3D printing, making it easy to customize your motherboard's appearance and improve system performance with a range of printable parts.

Exclusive 3D Mount For Easy Installation
Dedicated 3D Mounts on the motherboard makes fitting 3D-printed parts easy. Using the same screws as M.2 drives and standard motherboard mounting holes, you can easily add an M.2 fan holder.

Beyond VR ready
ROG Strix X370-F Gaming isn't just VR Ready - it goes way beyond! The ASUS ROG Beyond VR Ready marque means that ROG Strix X370-F Gaming has been tested with loads of class-leading components to ensure that your productivity, gaming and entertainment needs are tuned for maximum performance after you've taken off the headset. ASUS Beyond VR Ready opens up a new way to configure and build your dream system with total confidence.

Ready for AMD AM4-socket Ryzen, 7th Generation A-series APUs and Athlon CPUs
This motherboard supports AMD® Ryzen™ processors, 7th Generation A-series accelerated processing units (APUs) and Athlon™ CPUs. The high-performance Ryzen™ 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 Ryzen™ processors, 7th Generation A-series APUs and Athlon™ ACPUs. It is optimized for multiple GPU configurations including NVDIA SLI™ and AMD CrossFireX™. It also provides two 10Gbps USB 3.1 ports and eight 6Gbps SATA ports for faster data retrieval.

Specifications:

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Specifications	
Product Code	MB-AX370SF
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.)/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
Multi-GPU Support	Supports NVIDIA 2-Way SLI Technology
	Supports AMD 3-Way 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)
	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 mode)
	AMD X370 chipset :
	8 x SATA 6Gb/s port(s)
	Support Raid 0, 1, 10
LAN	Intel I211-AT, 1 x Gigabit LAN Controller(s)
	Anti-surge LANGuard
	ROG GameFirst Technology
Audio	ROG SupremeFX 8-Channel High Definition Audio CODEC S1220A
	- Dual Headphone Amplifiers
	- 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
	- SupremeFX Shielding Technology
	- Supports up to 32-Bit/192kHz playback
	Audio Feature :
	- Optical S/PDIF out port(s) at back panel
	- Sonic Radar III
	- Sonic Studio III
USB Ports	AMD Ryzen /7th Generation A-series/Athlon Processors :
	4 x USB 3.1 Gen 1 port(s) (4 at back panel, blue)
	AMD X370 chipset :
	1 x USB 3.1 Gen 2 front panel connector port(s)
	AMD X370 chipset :
	6 x USB 3.1 Gen 1 port(s) (2 at back panel, blue, 4 at mid-board)
	AMD X370 chipset :
	4 x USB 2.0 port(s) (2 at back panel, black, 2 at mid-board)
	ASMedia USB 3.1 Gen 2 controller :
	2 x USB 3.1 Gen 2 port(s) (2 at back panel, red, Type-A + USB Type-C)

ROG Exclusive Features	ROG RAMCache II
	ROG CPU-Z
	ROG CloneDrive
	Overwolf
	GameFirst IV

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.
	TPU
	- Auto Tuning, TurboV, GPU Boost
	- Fan Xpert 4 featuring Fan Auto Tuning function and multiple thermistors
	Gamer's Guardian:
	- ESD Guards on LAN, Audio, KBMS and USB3.0/2.0 ports
	- DRAM Overcurrent Protection
	- Stainless Steel Back I/O
	- Highly Durable Components
	- DIGI+ VRM
	- SafeSlot
	ASUS EPU :
	- EPU
	AURA :
	- Aura Lighting Control
	ASUS Exclusive Features :
	- AI Suite 3
	- Ai Charger
	ASUS EZ DIY :
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	ASUS Q-Design :
	- ASUS Q-Shield
	- ASUS Q-LED (CPU, DRAM, Boot Device LED)
	- ASUS Q-Slot
	- ASUS Q-DIMM
	Gaming Aesthetics :
	- 3D printing friendly
	- AURA-RGB Lighting
	Digi+VRM

Back I/O Ports	1 x DisplayPort
	1 x HDMI
	1 x LAN (RJ45) port(s)
	2 x USB 3.1 Gen 2 Type-A + USB Type-C
	6 x USB 3.1 Gen 1
	2 x USB 2.0
	1 x Optical S/PDIF out
	5 x Audio jack(s)
Internal I/O Ports	2 x RGB Header(s)
	2 x USB 3.1 Gen 1 connector(s) support(s) additional 4 USB 3.1 Gen 1 port(s)
	1 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s)
	1 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)
	1 x TPM connector(s)
	8 x SATA 6Gb/s connector(s)
	1 x CPU Fan connector(s)
	1 x CPU OPT Fan connector(s)
	3 x Chassis Fan connector(s)
	1 x AIO_PUMP connector
	1 x W_PUMP+ connector
	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 Thermal sensor connector(s)
	1 x Clear CMOS jumper(s)
	1 x System panel connector
	1 x USB 3.1 Gen 2 front panel connector

Accessories	User's manual
	I/O 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 ROG Strix stickers
	1 x 10-in-1 ROG cable label
	1 x Cable ties pack(s)
	1 x Extension Cable for RGB strips (80 cm)
	1 x 3D printing mount package
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
Support Disc	Drivers
	ASUS Utilities
	Anti-virus software (OEM version)
Operating System	Windows 10 64-bit
Form Factor	ATX Form Factor
	12 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-AX370SF-Asus-X370-Strix-X370-F-AMD-B350-Chipset-AM4-Motherboard-p-160022.php

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