ASUS ROG STRIX X570-F GAMING

Asus ROG Strix X570-F Gaming AMD X570 Chipset AMD Ryzen AM4 Socket Motherboard

Product Overview

Asus ROG Strix X570-F Gaming AMD X570 Chipset AMD Ryzen AM4 Socket Motherboard, 4 x DIMM, Max. 128GB, DDR4 4400(O.C) - 2133 MHz Un-buffered Memory, 1 x DisplayPort, 1 x HDMI, 1 x Optical S/PDIF out, 5 x Audio jack(s), 1 x USB BIOS Flashback Button(s), 4 x USB 3.2 Gen 1 (up to 5Gbps) ports, 3 x USB 3.2 Gen 2 (up to 10Gbps) ports (Type-A), 1 x USB 3.2 Gen 2 (up to 10Gbps) ports (Type-C), Anti-surge LAN (RJ45) port, 1 x PCH_FAN, 1 x AAFP connector, 2 x Aura RGB Strip Header(s), 2 x Addressable Gen 2 header(s), 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s), 2 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support, 1 x SPI TPM header, 8 x SATA 6Gb/s connector(s), 1 x CPU Fan connector(s), 1 x CPU OPT Fan connector(s), 2 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 4-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 Node Connector(s), 1 x System panel connector, 1 x T_Sensor Connector, 1 x M.2 Fan Header, 1 x USB 3.2 Gen 2 (up to 10Gbps) connector, 1 x USB 3.2 Gen 1 (up to 5Gbps) connector support additional 2 USB ports, ATX Form Factor, 30.5 cm x 24.4 cm



Specifications

Overview:

The ROG Strix X570-F Gaming motherboard delivers the quintessential ROG experience with a compelling mix of features, comprehensive cooling options and undeniable style that provide the ideal foundation for building a powerful ATX gaming system. Topped off with a futuristic new design aesthetic with on-board RGB lighting and a cyber-text pattern, ROG Strix X570-F Gaming equips you with all you need to build a formidable weapon to rise above the rest.

Features:

SOLID HARDWARE SPECS
With comprehensive cooling options and upgraded power delivery to fuel Ryzen CPUs with more cores, plus faster storage and networking, ROG Strix X570-F Gaming provides all the essentials you need to harness the full potential of components in your build for top-tier gaming performance.

POWER DESIGN
Digital power control and an array of power stages ensures ROG Strix X570-F Gaming has the muscle to control the latest AMD Ryzen CPUs.

ProCool II Power Connector
ProCool II sockets are built to tight specifications to ensure flush contact with the PSU power lines and have a metal armour for improved heat dissipation. The connector's lower impedance helps prevent hotspots and improves reliability.

MOS Heatsink With 8mm Heatpipe
A MOS heatsink provides a large contact area for the MOSFETs and chokes, and a heatpipe enables more efficient cooling of the west and north MOS heatsink for better performance and wattage resistance.

Thermal Pad
A high-quality thermal pad helps transfer heat from the inductor and phase array to the heatsink.

6-Layer PCB
The 6-layer PCB quickly dissipates heat around the VRM, improving overall system stability and giving the CPU more overclocking headroom.

Active Chipset Heatsink
PCIe 4.0 provides twice the bandwidth for data flowing through the chipset, which creates more heat than the previous generation. ROG Strix X570-F Gaming features an actively cooled heatsink to prevent throttling during sustained transfers.

Dual M.2 Heatsinks
The M.2 heatsink keeps the M.2 SSD at the optimum operating temperature for consistent performance and reliability.

Custom Delta Superflo Fan
The custom low-noise fan features a high-durability bearing with a 60,000-hour L10* lifespan.

Air Duct
A specially-designed air duct helps the fan generate static pressure and concentrates air flow over the fins.

Finned Heatsink
The heatsink fin density is optimized to maximize surface area while maintaining a low-resistance exhaust path.

COOLER BY DESIGN
ROG Strix X570 Gaming series features the most comprehensive cooling options ever, configurable via Fan Xpert 4 or the UEFI BIOS

CPU Fan Header
A dedicated PWM/DC fan header for CPU coolers.

AIO Pump Fan Header
A dedicated PWM/DC header for self-contained water-cooling setups.

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

M.2 Heatsink
The M.2 heatsink keeps the M.2 SSD at the optimum operating temperature for consistent performance and reliability.

M.2 Fan Header
A dedicated M.2 fan header helps keep temperatures low for improved performance and longevity.

DUAL PCIE 4.0 M.2
Dual PCIe 4.0 M.2 slots support up to type 22110 and provide NVMe SSD RAID support for an incredible performance boost.

Create a RAID configuration with up to two PCIe 4.0 storage devices to enjoy the fastest data-transfer speeds on the 3rd Gen AMD Ryzen platform.

ASUS OptiMem
ASUS OptiMem memory trace layout unleashes the full performance potential of AMD's Infinity Fabric architecture by enabling higher memory frequencies and lower latencies.

Intel Gigabit Ethernet
ROG Strix X570-F Gaming features Intel Ethernet (I211-AT), ensuring data exchanges with your network and the outside world are fast and smooth. Intel LAN reduces CPU overhead and increases TCP and UDP throughput, keeping more processing power.

Shielded Audio, Superior Sound
Immerse yourself in sound with SupremeFX audio technology. Utilizing the S1220A codec, SupremeFX is the integrated-audio solution that's engineered to provide a flat frequency response for a neutral, detailed sound signature. And to ensure that pristine signature is perfectly preserved, the front-panel output is driven with dual op amps, delivering sonics with the scale and authority to create virtual worlds via your gaming headset.

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

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.

DESIGN & CUSTOMIZATION
The arrival of ROG Strix X570-F Gaming brings a brand-new design that features unique rainfall and cyber-text patterns. Together with the most diverse ecosystem of components in the industry, ROG Strix X570-F Gaming makes creating and customizing a gaming rig that reflects your personal style wonderfully easy.

STRIKING NEW DESIGN
ROG Strix X570-F Gaming boasts a striking new design with an intricate rainfall pattern that cuts diagonally across the board and, along with the iconic ROG logo, is infused with Aura RGB lighting that glows in a brilliant array of vibrant colors. Futuristic cyber-text patterns provide an additional stylish accent, rounding out a design that proudly proclaims the board's gaming identity.

OUTSHINE THE COMPETITION
ROG Strix motherboards deliver sterling performance, accented by aesthetics to Outshine the Competition. ASUS Aura offers full RGB lighting control with a variety of functional presets for the built-in RGB LEDs as well as strips connected to the onboard RGB header - and it can all be synced with an ever-growing portfolio of Aura-capable ASUS hardware.

ADDRESSABLE GEN 2 RGB HEADER
ROG Strix X570-F Gaming's Addressable Gen 2 RGB headers are now capable of detecting the number of LEDs on second-gen addressable RGB devices, allowing the software to automatically tailor lighting effects to specific devices. The new headers also offer backward-compatibility with existing Aura RGB gear.

PERFECT SYNCHRONIZATION
The ASUS Aura ecosystem is in the ascendancy, with an extensive and growing list of ASUS products now offering Aura Sync compatibility - along with loads of compatible accessories and kits available through partners. Your ROG Strix motherboard's

built-in Aura RGB lighting easily syncs with PC cases, memory modules, coolers and RGB LED strips from a broad selection of well-known manufacturers. ASUS Aura software provides simple and intuitive lighting management.

CERTIFIED COMPATIBILITY
Having the freedom to pick and choose the parts that go into your machine is at the heart of PC DIY. That's why ROG Strix undergoes an extensive certification program focused on providing the very best compatibility with the widest range of components and devices. Our extensive list of guaranteed-compatible components is an invaluable aid to building a ROG Strix gaming rig. It specifies thousands of compatible parts, and it includes a dedicated Qualified Vendor List (QVL) for memory - so you can build fuss-free.

THE ROG STRIX ECOSYSTEM AWAITS
Gear up with ROG Strix components, from graphics and sound cards, to mice and keyboards, and up your game with complementary aesthetics, control and compatibility - and enjoy more choice than any competing brand.

TUNE YOUR RIG YOU WANT
The ROG Strix X570-F Gaming motherboard features firmware controls and software utilities designed for all skill levels, making setup, tuning and system maintenance simple. With options from overclocking and cooling to managing network performance and audio characteristics, you can configure your ROG Strix gaming build to perform the way you want.

5-WAY OPTIMIZATION
Take care of complex tuning with just one click. ASUS 5-Way Optimization makes your PC smart by dynamically optimizing essential aspects of your system, providing overclocking and cooling profiles that are tailored for your rig.

CPU-PERFORMANCE BOOST
The TurboV Processing Unit (TPU) is an intelligent onboard micro-controller that provides an array of system-tuning features, including the ability to fine-tune voltages, monitor system stats and adjust overclocking parameters.

ALL-AROUND ENERGY EFFICIENCY
With the Energy Processing Unit (EPU) you'll enjoy system-wide power savings. The EPU automatically optimizes power consumption and maximizes savings with Away mode - a smart setting that creates an extreme energy-saving scenario by shutting down unused I/O controllers.

FLEXIBLE COOLING CONTROLS FOR AIR OR LIQUID
Enjoy comprehensive control over fans, water pumps and all-in-one (AIO) coolers, via either Fan Expert 4 or our award-winning UEFI. Whether you're cooling with air or water, Auto-Tuning mode intelligently configures all parameters with a single click. There's also an Extreme Quiet mode, which reduces all fan speeds to below the default minimum - keeping your system whisper-quiet when performing light tasks.

PRECISE DIGITAL POWER CONTROL
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, switching frequency and power-efficiency settings, allowing you to fine-tune CPU voltage regulation for ultimate stability and performance.

TURBO APP
AMD's processors feature per-core tuning, and the ASUS Turbo app makes use of this feature by letting you assign applications to specific processor cores, prioritizing computing power where it's needed most.

UEFI BIOS
The renowned ROG UEFI (BIOS) provides everything you need to configure, tweak, and tune your rig. It offers intelligently simplified options for newcomers to PC DIY, as well as comprehensive features for seasoned veterans.

EZ MODE

- EZ Tuning Wizard - Streamline your RAID configuration for faster data retrieval and backups.

- Intuitive graphical fan control - Fine-tune individual fans simply by dragging a curve with the mouse.
- SATA Information - View SATA port details for easy device recognition.
- Fast and easy clock adjustment - Use the mouse to quickly change time and date settings.
- Aura On/Off mode (Stealth) - Easily enable or disable Aura RGB lighting or every onboard LED, for a more subdued aesthetic.

ADVANCED MODE

- My Favorites - Quickly find tuning options and add preferred tools to the list.
- EZ Flash 3 - Flash the latest BIOS via the internet from within the BIOS.
- SMART - Check your storage device Self-Monitoring, Analysis, and Reporting Technology logs to gauge reliability and identify potential failures.
- GPU POST - Automatically detect selected ASUS graphics cards to view detailed information.
- Secure Erase - Restore your SSDs and NVMe storage to factory settings.
- Last Modified Log - Track the last change and save preferred profiles to a USB drive.
- SATA Port Renaming - Rename SATA ports for easy identification.
- User Profile - Port configuration settings between different BIOS versions or share them with friends.
- Q-Fan Control - Configure the fan's operating speed manually or use pre-configured fan profiles to quickly select Standard, Silent, Turbo or Full Speed modes. By default, system fans will automatically switch to full speed if the temperature reaches 75 degreesC.

GAMEFIRST V NETWORK CONTROL

GameFirst V is an ROG-exclusive tool that let you build an ROG networking ecosystem with an ROG router. Select the best Wi-Fi channel for maximum stability and minimum interference, optimize network traffic and your connection for lag-free online gaming, team your gateways and keep tabs on bandwidth-hogging apps, all from an intuitive interface that enables easy, on-the-fly adjustments.

ROG FIRST

ROG First searches for ROG routers on the network and lets you automatically optimize their adaptive QoS settings for the best gaming performance, so you don't have to log in and configure the router manually.

SONIC STUDIO III

Sonic Studio supports HRTF-based (head-related transfer function*) virtual surround for VR headsets, casting an immersive aural landscape that draws you deeper into the action. The intuitive Sonic Studio interface also offers a range of EQ options and one-click presets, allowing you to tailor acoustics to suit personal preferences or the characteristics of your headset.

SONIC STUDIO LINK

The new Sonic Studio Link now allows you to apply Sonic Studio effects on all playback devices. Simply press the Sonic Studio Link button to enjoy the effect on any playback devices.

Armoury Crate

Armoury Crate is a new software utility designed to give you centralized control of supported ROG gaming products. From a single intuitive interface, Armoury Crate lets you easily customize RGB lighting and effects for every compatible device in your arsenal and synchronize them with Aura Sync for unified system lighting effects. The software also provides control of settings for a select and growing number of ROG products, including keyboard and mouse preferences as well as laptop overclocking and fan speeds, making it easier to tune the look and feel of your system. Armoury Crate even features dedicated product registration and ROG news areas to help you stay in touch with the ROG gaming community.

RAMCACHE III

RAMCache turns milliseconds into microseconds to boost game-load times. Fully compatible with the latest NVM Express storage options, its uniquely intelligent technology effectively caches an entire storage device so that favorite games and apps launch at breakneck speeds.

AMD X570 chipset
The AMD X570 chipset delivers outstanding overclocking capabilities for the latest AMD AM4 socket for 3rd and 2nd Gen AMD Ryzen™ /2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics Processors. It is optimized for multiple GPU configurations, including NVIDIA SLI® and AMD CrossFireX™. It also supports x16 PCI Express® 4.0/3.0 lanes and provides 10Gb/s USB 3.2 Gen 2 ports and 6 Gb/s SATA ports for faster data retrieval.

AMD AM4 Socket for 3rd and 2nd Gen AMD Ryzen™ / 2nd and 1st Gen AMD Ryzen™ with Radeon™ Vega Graphics Processors.
The high-performance 3rd Gen AMD Ryzen™ processors are based on the next-gen 7nm Zen architecture and support up to 16 processor cores. AMD AM4-socket processors feature dual-channel DDR4 memory, native 10Gb/s USB 3.2 Gen 2 and x16 PCI Express® 4.0/3.0 lanes for superb performance.

Specifications:

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Specifications	
Product Code	ASUS ROG STRIX X570-F GAMING
CPU	AMD AM4 Socket 3rd and 2nd AMD Ryzen /2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors
Chipset	AMD X570
Memory	3rd Gen AMD Ryzen Processors
	4 x DIMM, Max. 128GB, DDR4 4400(O.C) / 4266(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3600(O.C.) / 3400(O.C.) / 3200(O.C.) / 3000(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Un-buffered Memory
	2nd Gen AMD Ryzen Processors
	4 x DIMM, Max. 128GB, DDR4 3600(O.C.) / 3400(O.C.) / 3200(O.C.) / 3000(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Un-buffered Memory
	2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors
	4 x DIMM, Max. 128GB, DDR4 3200(O.C.) / 3000(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Un-buffered Memory
	Dual Channel Memory Architecture
Graphic	Integrated Graphics in the 2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors
	Multi-VGA output support : HDMI/DisplayPort ports
	- Supports HDMI 2.0b with maximum resolution of 4096 x 2160 @ 60 Hz
	- Supports DisplayPort 1.2 with max. resolution 4096 x 2160 @ 60 Hz
Multi-GPU Support	3rd and 2nd Gen AMD Ryzen Processors
	Supports NVIDIA 2-Way SLI Technology
	Supports AMD 3-Way CrossFireX Technology
	2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors
	Supports AMD 2-Way CrossFireX Technology

Expansion Slots	3rd Gen AMD Ryzen Processors
	2 x PCIe 4.0 x16 (x16 or dual x8)
	2nd Gen AMD Ryzen Processors
	2 x PCIe 3.0 x16 (x16 or dual x8)
	2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors
	1 x PCIe 3.0 x16 (x8 mode)
	AMD X570 chipset
	1 x PCIe 4.0 x16 (max at x4 mode)
	2 x PCIe 4.0 x1
Storage	3rd Gen AMD Ryzen Processors :
	1 x M.2 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 4.0 x4 and SATA modes) storage devices support
	2nd Gen AMD Ryzen /2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors :
	1 x M.2 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 3.0 x4 and SATA modes) storage devices support
	AMD X570 chipset :
	1 x M.2 x4 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 4.0 x4 and SATA modes) storage devices support
	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	SupremeFX 8-Channel High Definition Audio CODEC S1220A
	- Dual OP 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 + Sonic Studio Link

USB Ports	3rd and 2nd Gen AMD Ryzen /2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors :
	4 x USB 3.2 Gen 1 port(s) (4 at back panel,)
	AMD X570 chipset :
	1 x USB 3.2 Gen 2 front panel connector port(s)
	AMD X570 chipset :
	4 x USB 3.2 Gen 2 port(s) (4 at back panel, 3 x Type-A+1 x Type-C)
	AMD X570 chipset :
	2 x USB 3.2 Gen 1 port(s) (2 at mid-board)
	AMD X570 chipset :
	4 x USB 2.0 port(s) (4 at mid-board)
ROG Exclusive Features	ROG Exclusive Software
	- RAMCache III
	- CPU-Z
	- GameFirst V
	- Sonic Studio III + Sonic Studio Link
	- Sonic Radar III
	- Overwolf

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
	Gamer's Guardian:
	- DRAM Overcurrent Protection
	- Stainless Steel Back I/O
	- Highly Durable Components
	- DIGI+ VRM
	- SafeSlot
	- ESD Guards on LAN, Audio, and USB ports
	ASUS EPU :
	- EPU
	AURA :
	- Aura Lighting Control
	- Addressable Gen 2 Header
	ASUS Exclusive Features :
	- USB BIOS Flashback
	- AI Suite 3
	- Ai Charger
	- ASUS NODE : hardware control interface
	- BIOS Flashback Button
	ASUS EZ DIY :
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	ASUS Q-Design :
	- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
	- ASUS Q-Slot
	- ASUS Q-DIMM
	Gaming Aesthetics :
	- AURA-RGB Lighting

Back I/O Ports	1 x DisplayPort
	1 x HDMI
	1 x Optical S/PDIF out
	5 x Audio jack(s)
	1 x USB BIOS Flashback Button(s)
	4 x USB 3.2 Gen 1 (up to 5Gbps) ports
	3 x USB 3.2 Gen 2 (up to 10Gbps) ports (Type-A)
	1 x USB 3.2 Gen 2 (up to 10Gbps) ports (Type-C)
	Anti-surge LAN (RJ45) port
Internal I/O Ports	1 x PCH_FAN
	1 x AAFP connector
	2 x Aura RGB Strip Header(s)
	2 x Addressable Gen 2 header(s)
	2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
	2 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support
	1 x SPI TPM header
	8 x SATA 6Gb/s connector(s)
	1 x CPU Fan connector(s)
	1 x CPU OPT Fan connector(s)
	2 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 4-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 Node Connector(s)
	1 x System panel connector
	1 x T_Sensor Connector
	1 x M.2 Fan Header
	1 x USB 3.2 Gen 2 (up to 10Gbps) connector
	1 x USB 3.2 Gen 1 (up to 5Gbps) connector support additional 2 USB ports

Accessories	User's manual
	4 x SATA 6Gb/s cable(s)
	1 x M.2 Screw Package
	1 x Supporting DVD
	1 x Strix door hanger
	1 x ROG Strix stickers
	1 x Cable ties pack(s)
	1 x Extension Cable for RGB strips (80 cm)
	1 x Extension cable for Addressable LED
	1 x Thermistor cable(s)
	1 x ROG Thank you card
BIOS	256 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.2, ACPI 6.2.
Manageability	WOL, PXE
Support Disc	Overwolf
	Anti-virus software (OEM version)
	WinRAR
Operating System	Windows 10 64-bit
Form Factor	ATX Form Factor
	12 inch x 9.6 inch (30.5 cm x 24.4 cm)
Note	*1 PCIeX16_3 slot shares bandwidth with PCIeX1_2.
	*2 Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.

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/ASUS-ROG-STRIX-X570-F-GAMING-Asus-ROG-Strix-X570-F-Gaming-AMD-X570-Chipset-AMD-Ryzen-p-239400.php

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