ROG CROSSHAIR VII HERO

Asus ROG Crosshair VII Hero AMD X470 Chipset AM4 Socket Motherboard

Product Overview

Asus ROG Crosshair VII Hero AMD X470 Chipset AM4 Socket Motherboard, 4 x DIMM, Max. 64GB, 1 x PS/2 keyboard/mouse combo port(s), 1 x LAN (RJ45) port(s), 2 x USB 2.0 (one port can be switched to USB BIOS Flashback), 1 x Optical S/PDIF out, 1 x Clear CMOS button(s), 1 x USB BIOS Flashback Button(s), 5 x Gold-plated audio jacks, 8 x USB 3.1 Gen 1 (blue), 1 x USB 3.1 Gen 2 (red)Type-A, 1 x USB 3.1 (black)USB Type-C, 2 x Aura Addressable Strip Header(s), 2 x RGB Header(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 M.2 Socket 3 with M key, type 2242/2260/2280 storage devices support (PCIE 3.0 x 4 mode), 6 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 H_AMP fan connector, 1 x W_PUMP+ connector, 1 x 8-pin EATX 12 V Power connector, 1 x 4-pin EATX 12 V_1 Power connector(s), 1 x 24-pin EATX Power connector(s), 1 x Front panel audio connector(s) (AAFP), 1 x 5-pin EXT_FAN(Extension Fan) connector, 1 x Slow Mode switch(es), 1 x Thermal sensor connector(s), 1 x Reset button(s), 1 x LN2 Mode switch(es), 1 x ROG extension (ROG_EXT) header(s), 1 x Safe Boot button, 1 x ReTry button, 1 x Slow Mode jumper(s), 1 x System panel connector, 1 x W_IN header, 1 x W_OUT header, 1 x W_OUT header, 1 x W_FLOW header, 1 x Start button, 1 x USB 3.1 Gen 2 front panel connector, 1 x Speaker connector, 1 x USB 3.1 Gen 1 connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s), 1 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s), ATX Form Factor, 30.5 cm x 24.4 cm



Specifications

Features:

SILKSCREEN LABELS
ROG Crosshair VII Hero wears an informative silkscreen that makes it easy to identify native ports for your drives and peripherals, and also which PCI Express and memory slots to populate for best system performance.

THE HERO EVERYONE WANTS
Revel in ROG's enthusiast roots with ROG Crosshair VII Hero - the X470 gaming motherboard that conceals potent power, smarter cooling, and faster memory support under a stealthy new skin. Loaded with renowned ROG features, from one-click overclocking and cooling to attention-grabbing Aura Sync illumination, it's the perfect foundation for your AMD Ryzen™ rig.

AURA SYNC
ASUS Aura offers full RGB lighting control with a variety of functional presets for built-in RGB LEDs and for lighting strips connected to the onboard RGB headers. And it can all be synced with an ever-growing portfolio of Aura-capable ASUS hardware.

Aura lighting control
ASUS Aura has evolved to be more user-friendly than ever, Aura now supports RGB color codes, for easier setup, Customizable temperature thresholds allow you to choose how CPU and GPU temps are expressed via RGB lighting.

Infinite Lighting Possibilities
ASUS Aura SDK allows developers to take full advantage of the vast ecosystem of Aura Sync-capable PC gear. From in-system illumination to peripherals and beyond, the SDK provides an evolving toolkit of options to enhance games and software with RGB lighting. Game effects, alerts, and audio can all be conveyed via Aura-compatible hardware, creating subtle or dazzling visual cues to augment the action. There's also scope to map system parameters to lighting, such as internal temperatures, handing you versatile new ways to monitor vital information.

AURA SYNC X PHILIPS HUE
ROG Crosshair VII Hero takes ASUS Aura into the home - and now it also lets you synchronize effects with Philips® Hue personal wireless lighting. Easily control your Hue light bulbs, strips and lamps from the simple Aura app , and create immersive illumination that extends beyond your rig to make the whole room part of your gaming experience.

ASUS PRO CLOCK TECHNOLOGY
By default, all of Ryzen's major bus frequencies are derived from the same reference clock, limiting the control and flexibility needed to harness the full overclocking potential of the platform. ROG Crosshair VII Hero features a dedicated onboard clock generator that supplies dynamic reference clocks to the CPU cores and major subdomains, giving you the freedom to coax every MHz of headroom from the system.

DDR4 OVERCLOCKING STRENGTH IN NUMBERS
Whether you're gunning for high memory frequencies or tuning timings for the lowest latency, ROG Crosshair VII Hero provides the tools you need to exploit Ryzen's latent potential: carefully optimized trace pathways maintain signal integrity, and the acclaimed ROG firmware offers the necessary tweaks to ensure stability while maximizing memory performance. Load up with a high-density memory kit for heavy multitasking, or run a focused setup that delivers the bandwidth your favorite games and applications need. Any way you stack it, the Hero has you covered.

RAMCache II
ROG's uniquely intelligent technology 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 turns milliseconds into microseconds to boost game-load times to stratospheric levels!

ONE-CLICK OVERCLOCKING AND COOLING
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.

- An automated tuning utility that optimizes overclocking and cooling profiles for your unique system configuration.
- Fans stay whisper-quiet during everyday computing, and deliver optimal airflow when the system is crunching through CPU- or GPU-intensive tasks.
- An all-new stress test allows users to optimize and overclock for CPU- or memory-centric workloads.

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

Cooler By Design
ROG Crosshair VII Hero 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 user-configurable thermal sensors, for workload-based cooling. And all

settings can be easily managed by Fan Xpert 4 or UEFI.

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

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

Fan Extension Header
Allows expansion of three additional DC or PWM fan headers, plus three thermal-probe headers.

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

Water in/out
Allows for monitoring of temperature at the input/out of any component.

Water flow
Allows for constant monitoring of the flow rate of entire loop

AIO pump
A dedicated PWM/DC header for self-contained water-cooling setups.

SupremeFX
ROG's SupremeFX audio technology has levelled up, delivering an exceptional 113dB signal-to-noise ratio on the line-in connection to provide best-ever recording quality. We've also added a low-dropout regulator for cleaner power delivery to the SupremeFX S1220 codec, an ESS® Sabre Hi-Fi ES9023P digital-to-analog converter for superior front-panel output, and a Texas Instruments® RC4580 op amp for high gain with low distortion - all to deliver audio that envelops you as never before.

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

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.

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

Sonic Studio Link
New Sonic Studio Link VR functionality extends its HRTF effects to headsets like the Oculus Rift and HTC Vive.

Surround sound
Surround sound for a truly immersive audio experience

Sonic Radar III
The immersive Sonic Radar III audio engine processes sounds more accurately than ever, so you're always aware of what's going on around you. Use the on-screen arrow to hone your enemy-pinpointing skills, and enjoy visualized audio detail that eliminates the need to crank up the volume. It's the perfect tool for practice rounds and tuning untrained ears.

GAMEFIRST IV

GameFirst IV optimizes network traffic for faster, lag-free online gaming. New Multi-Gate Teaming brings together all your networks to create gargantuan bandwidth and smoothest-ever gameplay. You'll also enjoy all-new Intelligent mode, which automatically compiles a database to ensure that every game is optimized for best performance.

Overwolf
Overwolf is a clever, unobtrusive overlay that keeps you in the game and allows you to browse the Web, email, IM, stream or record while you play. The overlay features color-matched ROG skins that show you're part of an elite pack. Grab it now from the Overwolf Appstore!

AI Suite 3
One-stop control panel

ROG theme CPU-Z
Shows your important system information with pride

Mem TweakIt
Dynamic timing monitoring, DRAM efficiency gauge

RAMDisk
Boost your favorite applications up to 20X faster than SSD with the junction function

Kaspersky® Anti-Virus (1 year)
The best protection from viruses and spyware

DAEMON tools software
The leading tool for optical and virtual discs

PC Cleaner
Accelerate your PC by eliminating clogs with simple click

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. 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 3.1 Gen 1 and 16 PCI Express® 3.0/2.0 lanes for superb performance.

AMD X470 chipset
The AMD X470 chipset delivers outstanding overclocking capabilities for the latest AMD AM4-socket Ryzen™ processors, 7th Generation A 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 six 6Gbps SATA ports for faster data retrieval.

Specifications:

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Specifications	
Product Code	ROG CROSSHAIR VII HERO
CPU	AMD AM4 Socket AMD Ryzen 2nd Generation/Ryzen with Radeon Vega Graphics/Ryzen 1st Generation/7 Generation A-series/Athlon X4 Processors

Chipset	AMD X470
Memory	AMD Ryzen 2nd Generation Processors
	4 x DIMM, Max. 64GB, DDR4 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Non-ECC, Un-buffered Memory
	AMD Ryzen with Radeon Vega Graphics/ Ryzen 1st Generation Processors
	4 x DIMM, Max. 64GB, DDR4 3400(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz Non-ECC, 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
Multi-GPU Support	AMD Ryzen 2nd Generation/Ryzen 1st Generation Processors
	Supports NVIDIA 2-Way SLI Technology
	Supports AMD 3-Way 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 3.0/2.0 x16 (x16 or dual x8)
	AMD Ryzen with Radeon Vega Graphics /7th Generation A-Series/Athlon X4 Processors
	1 x PCIe 3.0/2.0 x16 (x8 mode)
	AMD X470 chipset
	1 x PCIe 2.0 x16 (max at x4 mode)
	2 x PCIe 2.0 x1
Storage	AMD Ryzen 2nd Generation/ 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)
	1 x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (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 :
	6 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 IV

Audio	ROG SupremeFX 8-Channel High Definition Audio CODEC S1220
	- 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
	- ESS ES9023P
	- Supports up to 32-Bit/192kHz playback
	Audio Feature :
	- Gold-plated jacks
	- Optical S/PDIF out port(s) at back panel
	- Sonic Radar III
	- Sonic Studio III
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)
	AMD X470 chipset :
	1 x USB 3.1 Gen 2 front panel connector port(s)
	AMD X470 chipset :
	6 x USB 3.1 Gen 1 port(s) (4 at back panel, blue)
	AMD X470 chipset :
	5 x USB 2.0 port(s) (2 at back panel, 3 at mid-board)
	ASMedia USB 3.1 Gen 2 controller :
	2 x USB 3.1 port(s) (2 at back panel, black+red, Type-A + USB Type-C)

ROG Exclusive Features	Clear CMOS button
	ROG RAMCache II
	ROG CPU-Z
	MemOK! Button
	Slow Mode
	Overwolf
	ReTry Button
	Safe Boot Button
	Start Button
	Reset Button
	LN2 Mode
	GameFirst IV
	Extreme Engine Digi+ :
	- MicroFine Alloy Chokes
	- NexFET Power Block MOSFET
	- 10K Black Metallic Capacitors
	Mem TweakIt
	UEFI BIOS features :
	- Tweakers' Paradise
	- ROG SSD Secure Erase
	- Graphic Card Information Preview
	ROG RAMDisk
	Extreme Tweaker
	USB BIOS Flashback

Special Features	ASUS Dual Intelligent Processors 5-Way Optimization by Dual Intelligent Processors 5 :
	- 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Expert 4, and Turbo App
	Gamer's Guardian:
	- SafeSlot
	AURA :
	- Aura Lighting Control
	- Aura RGB Strip Headers
	- Aura Addressable Strip Header(s)
	ASUS Exclusive Features :
	- AI Suite 3
	- Ai Charger
	ASUS EZ DIY :
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	ASUS Q-Design :
	- ASUS Q-Code
	- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
	- ASUS Q-Slot
	- ASUS Q-DIMM
	- ASUS Q-Connector
Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s)
	1 x LAN (RJ45) port(s)
	2 x USB 2.0 (one port can be switched to USB BIOS Flashback)
	1 x Optical S/PDIF out
	1 x Clear CMOS button(s)
	1 x USB BIOS Flashback Button(s)
	5 x Gold-plated audio jacks
	8 x USB 3.1 Gen 1 (blue)
	1 x USB 3.1 Gen 2 (red)Type-A
	1 x USB 3.1 (black)USB Type-C

Internal I/O Ports	2 x Aura Addressable Strip Header(s)
	2 x RGB Header(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 M.2 Socket 3 with M key, type 2242/2260/2280 storage devices support (PCIE 3.0 x 4 mode)
	6 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 H_AMP fan connector
	1 x W_PUMP+ connector
	1 x 8-pin EATX 12 V Power connector
	1 x 4-pin EATX 12 V_1 Power connector(s)
	1 x 24-pin EATX Power connector(s)
	1 x Front panel audio connector(s) (AAFP)
	1 x 5-pin EXT_FAN(Extension Fan) connector
	1 x Slow Mode switch(es)
	1 x Thermal sensor connector(s)
	1 x Reset button(s)
	1 x LN2 Mode switch(es)
	1 x ROG extension (ROG_EXT) header(s)
	1 x Safe Boot button
	1 x ReTry button
	1 x Slow Mode jumper(s)
	1 x System panel connector
	1 x W_IN header
	1 x W_OUT header
	1 x W_FLOW header
	1 x Start button
	1 x USB 3.1 Gen 2 front panel connector
	1 x Speaker connector
	1 x USB 3.1 Gen 1 connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s)
	1 x USB 2.0 connector(s) support(s) additional 2 USB 2.0 port(s)

Accessories	User's manual
	4 x SATA 6Gb/s cable(s)
	2 x M.2 Screw Package
	1 x Supporting DVD
	1 x SLI HB BRIDGE(2-WAY-M)
	1 x ROG big sticker
	1 x Q-Connector
	1 x Extension Cable for RGB strips (80 cm)
	1 x Extension cable for Addressable LED
	1 x ROG coaster(s)
BIOS	256 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, 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 and ASUS DRAM SPD (Serial Presence Detect) memory information, Secure Erase, User Profile, F4 AURA ON/OFF, F9 Search
Manageability	WOL, PXE
Support Disc	Drivers
	AURA
	ROG GameFirst IV
	ROG RAMDisk
	ROG RAMCache II
	ROG CPU-Z
	ROG MemTweakIt
	Sonic Studio III
	Sonic Radar III
	Overwolf
	Kaspersky Anti-Virus
	WinRAR
	Fan Xpert 4
	DAEMON Tools Software
	ASUS Utilities
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 Due to CPU limitation, NVIDIA 2-Way SLI Technology is not supported for AMD 7th Gen A-series/Athlon Processors.
	*2 The PCIE_x8/x4_2 slot shares bandwidth with the M.2_2 slot.
	*3 M.2_2 is unsupported for these processors.
	*4 Due to limitations in HDA bandwidth, 32-bit/192kHz is not supported for 8-Channel audio and due to Windows 7 limitations, 32-bit playback is unavailable for Windows 7.

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/ROG-CROSSHAIR-VII-HERO-Asus-ROG-Crosshair-VII-Hero-AMD-X470-Chipset-AM4-Socket-Motherboard-p-192641.php

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