ASUS ROG CROSSHAIR VIII FORMULA

Asus ROG Crosshair VIII Formula AMD X570 Chipset AMD Ryzen AM4 Motherboard

Product Overview

Asus ROG CROSSHAIR VIII FORMULA AMD AM4 Socket 3rd and 2nd AMD Ryzen/2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors, Memory: 4 x DIMM, Max. 128GB, DDR4, Expansion Slots: 2 x PCIe 4.0 x16, 2 x PCIe 3.0, 1 x PCIe 3.0, Storage and USB: 2 x M.2 (PCIE 4.0 x4 and SATA modes), 8 x SATA 6Gb/s(Raid 0, 1, 10). 9 x USB3.2 Gen 2, 4 x USB3.2 Gen 1(4@frt), 8 x USB2.0, Multi VGA: Supports NVIDIA 2-Way SLI Technology, AMD 3-Way CrossFireX



Specifications

Overview:

ROG has partnered with EK Water Blocks to create an integrated VRM water-cooling solution that keeps the massive power of the latest AMD Ryzen processors under control. Keeping with the water-cooling theme, the ROG Crosshair VIII Formula features on-board lighting that casts a "rainfall" design which pops against the board's mirror finish and is accented by the ROG logo. With its incredible cooling performance and gamer-oriented features, ROG Crosshair VIII Formula is the perfect foundation for your next high-performance gaming rig.

Features:

CHILLING DESIGN
Effective cooling is extremely important, so the ROG Crosshair VIII Formula provides comprehensive cooling features that enable higher performance at lower temperatures.

EXPERTLY TOOLED TOTALLY COOLED CROSSCHILL EK III
CrossChill EK III lets you cool with air and water. The redesigned cooling channels provide wider copper, delivering up to 29.3 degreesC-lower MOSFET temperatures on water, and the standard G1/4" threaded fittings mean CrossChill EK III easily fits existing setups - so you can enjoy efficient, quiet cooling with the minimum effort.

COMPREHENSIVE COOLING ZONE
ROG Crosshair VIII Formula features the most comprehensive cooling options 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.

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

ROG Water-Cooling Zone
Water In/Out and water-flow headers feed status information straight into the AI Suite utility, so you can keep track of coolant temperatures and the flow rate of the entire loop to ensure the best cooling performance.

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

HEATSINKS
Heatsinks are extremely important for motherboards, as they absorb heat from critical areas to ensure components do not stagger due to overheating. With VRM, chipset and M.2 heatsinks, ROG Crosshair VIII Formula ensures efficient and stable operation even when pushed hard.

ACTIVE CHIPSET HEATSINK DESIGN
PCIe 4.0 provides twice the bandwidth for data flowing through the chipset, which creates more heat than the previous generation. The Formula features an actively cooled heatsink to prevent throttling during sustained transfers.

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.

SOLID STEEL BACKPLATE
The steel, electro-galvanized, cold-rolled coil construction strengthens Crosshair VIII Formula to prevent bending, and adds additional mass to siphon heat from the VRM.

M.2 Heatsink
ROG Crosshair VIII Formula is equipped with a stylish M.2 heatsink that keeps your SSD cool. By efficiently dissipating heat away from the M.2 area, it minimizes the possibility of the performance-sapping throttling that can happen when drives become too warm.

BOOSTED PERFORMANCE
ROG Crosshair VIII Formula comes equipped with an optimized power-design layout to handle the prodigious power of the latest AMD Ryzen processors without throttling.

POWER DESIGN THAT BUCKS TRENDS
The monstrous compute power of multi-core processors necessitates a power circuit that rapidly responds to massive current swings. Featuring an array of 16 strategically paired power stages, the Formula's VRM is geared for any workload and all operating conditions. Robust power delivery starts at the component level. Every aspect of the ROG Crosshair VIII Formula's VRM is generously over-specified for the task.

8-PIN PROCOOL II POWER CONNECTORS
ProCool II connectors ensure a snug and reliable connection to the EPS 12V power lines.

POWIRSTAGE® MOSFETS
The VRM is comprised of 16 IR3555 PowIRstages, each rated to handle 60 amps.

MICROFINE ALLOY CHOKES
Each PowIRstage is accompanied by a high-permeability alloy-core choke rated to handle 45 amps.

10K JAPANESE-MADE BLACK METALLIC CAPACITORS
Input and output filtering is provided by solid-polymer capacitors rated to last thousands of hours at high operating temperatures.

POWER ARCHITECTURE
Conventional motherboard design practices place primary focus on component specs without implementing circuit topologies that provide optimal transient response. The Formula bucks industry trends by utilizing teamed PowIRstages to double the burst current of each phase and rapidly respond to load changes.

OptiMem III DDR4 4800 MHz (O.C.)
Infused with proprietary memory trace layout tweaks that improve signal integrity and mitigate noise, Optimem III allows memory kits to run at lower latencies, reduced voltages, and operate at higher frequencies. Stack the Formula with your favorite modules and maximize Matisse throughput for applications that demand massive bandwidth, or balance infinity fabric and memory performance for a diverse range of workloads.

UNCOMPLICATED SYSTEM TUNING
ROG gives you powerful tools that make optimizing your system fast and easy. For those who relish fine-grained control, the UEFI BIOS has a wealth of advanced options organized into intuitive categories that provide the ability to tweak every aspect of your system.

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 Clock Adjustment - Use mouse controls to change the time and date.
- 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 storages devices' Self-Monitoring, Analysis, and Reporting Technology logs to gauge reliability and to identify potential failures.
- GPU POST - Automatically detect selected ASUS graphics cards to view detailed information.
- Secure Erase - Restore your SSDs to factory-fresh condition.
- Last Modified Log - Track the latest changes and save preferred profiles onto a USB drive.
- SATA Port Renaming - Rename SATA ports for easy identification.

- Search Function - Quickly and easily find the option or setting you're looking for.
- ASUS User Profile - Port configuration settings between different BIOS versions or share them with friends.

ACCURATE VOLTAGE MONITORING
Conventional motherboards ues single-ended sensing tapped from a location that isn't ideal, leading to a large disparity between the actual voltage fed to the CPU and the value reported to software. The Formula features a differential sensing circuit that simplifies overclocking and tuning by allowing you to track voltages more accurately.

Performance Level Up
AI Suite 3's dashboard-style control panel lets you fine-tune almost every aspect of your system. Get the best balance between performance, cooling, stability, and efficiency via one simple and intuitive interface.

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.

ULTRAFAST CONNECTION
ROG Crosshair VIII Formula offers advanced connectivity to ensure seamless gaming experiences. With the latest ultrafast networking, including Wi-Fi 6 (802.11ax) and dual Ethernet with one 5G port, ROG Crosshair VIII Formula removes all bottlenecks for online and LAN play, minimizing lag and providing an overall smoother experience. Additionally, the M.2 supports AMD StoreMI technology to maximize the speed of your SSD for faster load times, and SupremeFX on-board audio provides superb sound, while saving a PCIe slot.

WIFI 6 (AX200)
ROG Crosshair VIII Formula comes with on-board Wi-Fi 6 (802.11ax) support, offering ultrafast networking speeds, improved network capacity and better performance in dense Wi-Fi environments for exceptional online gaming experiences with the convenience of a wireless connection.

5GBPS ONBOARD ETHERNET
Designed for the demanding requirements of power users and content creators who push the envelope, onboard 5Gbps Ethernet plugs you into a new era of home networking. With up to 5X the bandwidth of standard gigabit Ethernet, you'll enjoy streaming uncompressed 4K UHD videos, backups and file transfers that are faster than ever before. Formula supports intermediate 2.5Gbps connectivity, allowing you to step up to faster networks for maximum flexibility. Choose the bandwidth that meets your needs and enjoy ultra-low latency at any speed.

INTEL ETHERNET
ROG Crosshair VIII Formula features the latest 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.

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® 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.

S1220 Codec
10 DAC channels, simultaneous 7.1 channel playback, independent 2.0-channel, multiple-stream stereo to front panel outputs.

ESS®ES9023P
The ESS® ES9023P digital-to-analog converter creates a perfect balance for top-tier audio clarity capable of 112db DNR /-94dB THD N for superior front-panel output.

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

Gold-Plated Audio Jacks
Prevents oxidization to ensure a reliable connection.

Switching Mosfets
Unique design allows the codec's impedance-sensing function to be ported with either the front or rear headphone outputs.

UNTHROTTLED TRANSFER SPEED
Dual PCIe 4.0 M.2 Slot support up to 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 Generation AMD Ryzen platform.

AMD STOREMI
AMD StoreMI technology is a software utility that accelerates any drive for better system responsiveness with reduced startup and software load times. It combines SSD performance with the affordability and capacity of an HDD by automatically moving frequently accessed data to dedicated SSD storage.

ASUS NODE CONNECTOR
ASUS Node is a proprietary bi-directional interface that allow ASUS motherboards to communicate with other system components, opening up a wealth of new options for system builders.

THE POWER TO PERSONALIZE
ROG provides a range of intuitive software that enables easy control of your advanced gaming hardware and ensures seamless component compatibility. From RGB lighting, networking and audio to storage optimization and more, ROG gives you the power to personalize your system just the way you want.

GAMEFIRST V NETWORK CONTROL
GameFirst V is an ROG-exclusive tool that optimizes network traffic and your connection for faster, lag-free online gaming. Select the best Wi-Fi channel for maximum stability and minimum interference, team your gateways and keep tabs on bandwidth-hogging apps, all from an intuitive interface that enables easy, on-the-fly adjustments.

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
Th 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.

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 VIRTUAL MIXER
A virtual audio device that lets streamers combine sound output and output from different apps. This allows you to mix your voice and video game audio within streaming software. A variety of adjustment and monitoring tools provide a high level of digital control.

GROW YOUR GAMING WORLD
Gear up with ROG components, from graphics and monitors, to mice and keyboards, and up your game with complementary aesthetics, control and compatibility. The ROG ecosystem is more extensive than any competing brand, so enjoy greater choice as your system expands.

ADDRESSABLE Gen 2 RGB HEADER
The Formula's Addressable Gen 2 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. Addressable Gen 2 device: Effect is perfectly matched to the LEDs on the strip, moving smoothly from end to end.

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.

Smart mode
Automatically caches all your storage devices to maximize your system's resources

Real-time information
The intuitive interface displays real-time drive information, such as current read/write speeds.

Health check
And allows you to quickly check the health status of assigned memory.

Smart mode
Automatically caches all your storage devices to maximize your system's resources

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 CROSSHAIR VIII FORMULA
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 4800(O.C.) / 4600(O.C) / 4400(O.C) / 4266(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3733(O.C.) / 3600(O.C.) / 3466(O.C.) / 3200 / 3000 / 2933 / 2800 / 2666 / 2400 / 2133 MHz Memory
	2nd Gen AMD Ryzen Processors
	4 x DIMM, Max. 128GB, DDR4 3600(O.C.) / 3466(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933 / 2800 / 2666 / 2400 / 2133 MHz Memory
	2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors
	4 x DIMM, Max. 128GB, DDR4 3200(O.C.) / 3000(O.C.) / 2933 / 2800 / 2666 / 2400 / 2133 MHz Memory
	Dual Channel Memory Architecture
	ECC Memory (ECC mode) support varies by CPU.
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 (x4 mode)
	1 x PCIe 4.0 x1
Storage	3rd Gen AMD Ryzen Processors :
	1 x M.2_1 socket 3, with M Key, Type 2242/2260/2280 (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_1 socket 3, with M key, type 2242/2260/2280 storage devices support (SATA & PCIE 3.0 x 4 mode)
	AMD X570 chipset :
	1 x M.2_2 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
	Aquantia AQC111C 5G LAN
	ASUS LAN Guard
	ROG GameFirst V Technology
Wireless Data Network	Intel Wi-Fi 6 AX200
	Supports channel bandwidth: HT20/HT40/HT80/HT160
	2 x 2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax) with MU-MIMO supports dual frequency band 2.4/5GHz
	Up to 2.4Gbps transfer speed
Bluetooth	Bluetooth 5.0

Audio	ROG SupremeFX 8-Channel High Definition Audio CODEC S1220
	- Supports : 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 Sonic Studio Link
	* Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.
USB Ports	3rd Gen AMD RyzenTM Processors :
	4 x USB 3.2 Gen 2 port(s) (4 at back panel, red, Type-A)
	2nd Gen AMD RyzenTM/2nd and 1st Gen AMD Ryzen with Radeon Vega Graphics Processors :
	4 x USB 3.2 Gen 1 port(s) (4 at back panel, red, Type-A)
	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) (3 at back panel, red, Type-A, 1 x Type-C)
	AMD X570 chipset :
	8 x USB 3.2 Gen 1 port(s) (4 at back panel, blue, 4 at mid-board)
	AMD X570 chipset :
	4 x USB 2.0 port(s)

ROG Exclusive Features	ROG RGB Armor
	Start Button
	Reset Button
	ROG Aura
	- Aura Lighting Control
	- Aura RGB Strip Headers
	Extreme Engine Digi :
	- IR3555 PoweIRstage
	- MicroFine Alloy Chokes
	- 10K Black Metallic Capacitors
	ROG Extreme OC kit :
	- Safe Boot button
	- Slow Mode
	- LN2 Mode
	UEFI BIOS features :
	- Tweakers' Paradise
	- ROG SSD Secure Erase
	- Graphic Card Information Preview
	USB BIOS FlashBack
	Crosschill EK III
	ROG Patented Pre-mounted I/O Shield
	ROG Exclusive Software
	- Mem Tweakit
	- RAMCache III
	- RAMDisk
	- CPU-Z
	- GameFirst V
	- Sonic Studio III Sonic Studio Link
	- Sonic Radar III
	- Overwolf

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:
	- DRAM Overcurrent Protection
	- 10K Black Metallic Capacitors
	- ESD Guards on LAN, Audio, and USB ports
	ASUS SafeSlot - Protect your graphics card Investment
	LiveDash OLED
	AURA :
	- Aura Lighting Control
	- Aura RGB Strip Headers
	- Addressable Gen 2 Header
	ASUS Exclusive Features :
	- USB BIOS FlashBack
	- AI Suite 3
	- Ai Charger
	- ASUS CrashFree BIOS 3
	- Armoury Crate
	- Pre-mounted I/O Shield
	- ASUS NODE: hardware control interface
	- BIOS FlashBack Button
	- Clear CMOS Button
	ASUS Q-Design :
	- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
	- ASUS Q-DIMM
	- ASUS Q-Connector
Back I/O Ports	1 x Optical S/PDIF out
	1 x Clear CMOS button(s)
	1 x USB BIOS FlashBack Button(s)
	1 x ASUS Wi-Fi Module
	1 x Gold-plated audio jacks
	4 x USB 3.2 Gen 1 (up to 5Gbps) ports
	8 x USB 3.2 Gen 2 (up to 10Gbps) ports ()
	Anti-surge LAN (RJ45) port
	1 x AQC-111C 5G LAN port

Internal I/O Ports	1 x PCH_FAN
	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)
	1 x M.2 Socket 3 with M key, type 2242/2260 storage devices support (both SATA & PCIE mode)
	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 CPU OPT Fan connector(s)
	3 x Chassis Fan connector(s)
	1 x Optional Fan connector(s)
	1 x AIO_PUMP connector
	1 x H_AMP fan 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 Slow Mode switch(es)
	1 x LN2 Mode header(s)
	1 x Power-on button(s)
	1 x Reset button(s)
	1 x Node Connector(s)
	1 x Safe Boot button
	1 x ReTry button
	1 x System panel connector
	1 x W_IN header
	1 x W_OUT header
	1 x W_FLOW header
	1 x Thermal sensor connector
	1 x Speaker connector
	1 x USB 3.2 Gen 2 (up to 10Gbps) connector
	2 x USB 3.2 Gen 1 (up to 5Gbps) connector support additional 4 USB ports

Accessories	User's manual
	1 x ROG logo plate sticker
	4 x SATA power cable
	1 x M.2 Screw Package
	1 x Supporting DVD
	1 x ROG big sticker
	1 x Q-Connector
	1 x Wi-Fi Antenna(s)
	1 x Extension Cable for RGB strips (80 cm)
	1 x Extension cable for Addressable LED
	1 x ROG coaster(s)
	2 x ROG weave SATA 6G cable
	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
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/ASUS-ROG-CROSSHAIR-VIII-FORMULA-Asus-ROG-Crosshair-VIII-Formula-AMD-X570-Chipset-p-241723.php

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