СРИ	AMD AM4 Socket for AMD Ryzen™ 5000 Series / 4000 G-Series / 3000 Series / 3000 G-Series / 2000 Series / 2000 G-Series desktop processors*
	* Refer to www.asus.com for CPU support list.
Chipset	AMD X570 Chipset
	AMD Ryzen™ 5000 and 3000 Series Desktop Processors
	4 x DIMM, max. 128GB, DDR4 5000(O.C.) / 4866(O.C.) / 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.) / 3400(O.C.) / 3200 / 3000 / 2933 / 2800 / 2666 / 2400 / 2133 MHz, un-buffered memory
	AMD Ryzen™ 4000 G-Series Desktop Processors
Memory	4 x DIMM, max. 128GB, DDR4 5100(O.C.) / 5000(O.C.) / 4866(O.C) / 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.) / 3400(O.C.) / 3200 / 3000 / 2933 / 2800 / 2666 / 2400 / 2133 MHz, un-buffered memory
	AMD Ryzen™ 2000 Series Desktop Processors
	4 x DIMM, max. 128GB, DDR4 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3200(O.C.) / 3000(O.C.) / 2933 / 2800 / 2666 / 2400 / 2133 MHz, un-buffered memory
	AMD Ryzen™ 3000 and 2000 G-Series Desktop Processors
	4 x DIMM, max. 128GB, DDR4 3200(O.C.) / 3000(O.C.) / 2933 / 2800 / 2666 / 2400 / 2133 MHz, un-buffered memory
	Dual Channel Memory Architecture
	OptiMem III
	* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).
Expansion Slots	AMD Ryzen™ 5000 and 3000 Series Desktop Processors
	- 2 x PCIe 4.0 x16 SafeSlots (support x16, x8/x8)
	AMD Ryzen™ 4000 G-Series and 2000 series Desktop Processors
	- 2 x PCle 3.0 x16 SafeSlots (support x16, x8/x8)
	AMD Ryzen™ 3000 and 2000 G-Series Desktop Processors
	- 1 x PCle 3.0 x16 SafeSlot (supports x8)
	AMD X570 chipset
	- 1 x PCle 4.0 x16 (supports x4)
	- 1 x PCle 4.0 x1
Multi-GPU Support	AMD Ryzen™ 5000, 4000 G-series, 3000 and 2000 Series Desktop Processors
	Supports NVIDIA® 2-Way SLI® Technology
	Supports AMD 3-Way CrossFireX™ Technology
	AMD Ryzen™ 3000 and 2000 G-Series Desktop Processors
	Supports AMD 2-Way CrossFireX™ Technology

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	AMD Ryzen™ 5000 and 3000 Series Desktop Processors
Storage	- 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 (PCIe 4.0 x4 and SATA modes) storage devices support
	AMD Ryzen™ 4000, 3000, 2000 Series and 2000 G-Series Desktop Processors
	- 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 (PCIe 3,0 x4 and SATA modes) storage devices support
	AMD X570 chipset
	- 1 x M.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 ports
	- Support Raid 0, 1, 10
	1 x Realtek RTL8125-CG 2.5Gb Ethernet
Ethernet	1 x Intel® I211-AT 1Gb Ethernet
	ASUS LANGuard
	Intel® Wi-Fi 6 AX200
	2x2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax) support 1024QAM/OFDMA/MU-MIMO
	Supports up to 2.4Gbps max data rate
Wireless & Bluetooth	Supports 2.4/5GHz Dual-Band
Wileless & Didelootii	Supports channel bandwidth: HT20/HT40/HT80/HT160
	Supports PCIe interface
	Bluetooth v5.1*
	* Bluetooth 5.1 function will be ready in Windows 10 build 19041 or later.
	AMD Ryzen™ 5000, 4000 G-Series and 3000 Series Desktop Processors
	- 4 x USB 3.2 Gen 2 ports (4 ports at back panel, Type-A [red])
USB	AMD Ryzen™ 3000, 2000 Series and 2000 G-Series Desktop Processors
	- 4 x USB 3.2 Gen 1 ports (4 ports at back panel, Type-A [red])
	AMD X570 chipset
	- 1 x USB 3.2 Gen 2 front panel connector
	- 4 x USB 3.2 Gen 2 ports (4 ports at back panel, 3 x Type-A [red], 1 x USB Type-C [®])
	- 6 x USB 3.2 Gen 1 ports (4 ports at back panel [blue], 2 ports at front panel)
	- 4 x USB 2.0 ports at front panel
Audio	ROG SupremeFX 7.1 Surround Sound 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
	- Supports up to 32-Bit/192 kHz playback*

	Andre Frakens
	Audio Features
	- SupremeFX Shielding Technology
	- EESS® ES9023P High Definition DAC
	 Power pre-regulator reduces power input noise to ensure consistent performance
	- Gold-plated audio jacks
Audio	- Rear optical S/PDIF out port
	- Premium Japanese audio capacitors
	- Dedicated audio PCB layers
	- Audio cover
	- Unique de-pop circuit
	* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1 Surround Sound audio.
	8 x USB 3,2 Gen 2 ports (7 x Type-A + 1 x USB Type-C®)
	4 x USB 3,2 Gen 1 ports (4 x Type-A)
	1 x ASUS Wi-Fi Module
	1 x Realtek RTL8125-CG 2.5Gb Ethernet port
Back I/O Ports	1 x Intel® I211-AT 1Gb Ethernet port
	5 x Gold-plated audio jacks
	1 x Optical S/PDIF out port
	1 x BIOS FlashBack™ button
	1 x Clear CMOS button
	Fan and cooling related
	1 x 4-pin CPU Fan header(s)
	1 x 4-pin CPU OPT Fan header(s)
	1 x 4-pin AIO Pump header(s)
	3 x 4-pin Chassis Fan header(s)
	1 x 4-pin H_AMP Fan header(s)
	1 x W_PUMP+ header(s)
	1 x 2-pin Water In header
	1 x 2-pin Water Out header
	1 x 3-pin Water Flow header
Internal I/O connectors	Power related
	1 x 24-pin Main Power connector
	1 x 8-pin +12V Power connector
	1 x 4-pin +12V Power connector
	Storage related
	2 x M.2 slots (Key M)
	8 x SATA 6Gb/s ports
	USB
	1 x USB 3.2 Gen 2 Front Panel connector (support(s) USB Type-C®)
	1 x USB 3.2 Gen 1 header(s) support(s) additional 2 USB 3.2 Gen 1 ports
	2 x USB 2.0 header(s) support(s) additional 4 USB 2.0 ports

	y
	Miscellaneous
Internal I/O connectors	2 x AURA Addressable Gen 2 header(s)
	2 x AURA RGB header(s)
	1 x Front Panel Audio header (AAFP)
	1 x LN2 Mode jumper
	1 x Reset button
	1 x ReTry button
	1 x Safe Boot button
	1 x Slow Mode switch
	1 x Speaker header
	1 x TPM header (14-1pin)
	1 x Start button
	1 x 10-1 pin System Panel header
	1 x Thermal Sensor header
	Extreme OC Kit
	- LN2 Mode
	- ReTry button
	- Safe boot button
	- Start button
	- Slow Mode
	Extreme Engine Digi+
	- 10K Black Metallic Capacitors
	- TI CSD95410RRB Power Stage (90A)
	- MicroFine Alloy Choke
	ASUS Q-Design
	- ASUS Q-Code
	- ASUS Q-Connector
	- ASUS Q-DIMM
Special Features	- ASUS Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
	- ASUS Q-Slot
	ASUS Thermal Solution
	- Aluminum M.2 heatsink
	- Chipset passive cooling solution
	ASUS EZ DIY
	- BIOS FlashBack™ button
	- Clear CMOS button
	- Procool II
	- Pre-mounted I/O shield
	- SafeSlot
	AURA Sync
	- AURA RGB header(s)
	- Addressable Gen 2 RGB header(s)

	ROG Exclusive Software
	- RAMCache III
	- ROG CPU-Z
	- GameFirst VI
	- Sonic Studio III + Sonic Studio Virtual Mixer
	- Sonic Radar III
	- DTS® Sound Unbound
	- Overwolf
	- Anti-virus software
	ASUS Exclusive Software Features
	Armoury Crate
	- Aura Creator
	- Aura Sync
	Al Suite 3
Software Features	- 5-Way Optimization by Dual Intelligent Processors 5
	TPU
	EPU
	DIGI+ VRM
	Fan Xpert 4
	Turbo app
	- EZ update
	- ASUS CPU-Z
	- Al Charger
	- WinRAR
	UEFI BIOS
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PXE
Operating System	Windows® 10 - 64 bit
Form Factor	ATX Form Factor
	12 inch x 9.6 inch (30.5cm x 24.4cm)



Specifications are subject to change without notice. Please refer to the ASUS website for the latest specifications, $\,$

Package contents

Check your motherboard package for the following items.

Motherboard	1 x ROG CROSSHAIR VIII DARK HERO motherboard
Cables	1 x Addressable RGB extension cable
	1 x RGB extension cable
	4 x SATA 6Gb/s cables
Miscellaneous	1 x M.2 SSD screw package(s)
	1 x Q-connector
	1 x ROG coaster
	1 x ROG stickers
	1 x ROG thank you card
	1 x ASUS 2x2 Dual-Band Wi-Fi moving antennas
Installation Media	1 x Support DVD
Documentation	1 x User manual



If any of the above items is damaged or missing, contact your retailer.