

Z790H7-A V1.0



- Support Microsoft Windows 11 64bit
- Support DDR5 LONG DIMM 6200+(OC) memory
- Support USB 3.2 Gen2x2 Function
- Support up to 4 M.2 Slots for Storage
- Support 2230 M.2 for WiFi expansion
- Realtek ALC1220 Audio Code w/ Superior Capacitors
- LED control by MCU, up to 3*5V and 1*12V RGB header
- Easy button for control, Such as Power on, Rest, clear CMOS..etc



SPECIFICATIONS



Support Windows 11

Support the latest Windows 11 technology which provides touch-enabled control, Apps and can connect with the cloud to connect with your files, photos, people and settings, wherever



Flash Power

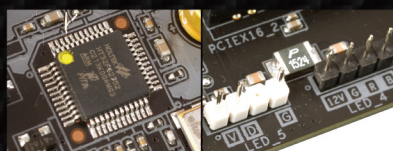
Digital controlling of power features the most stable voltage maximizing the performance of CPU frequency boost with durable chokes and MOSFETs fulfilling hard-core gamers demand for over-clocking.



4 M.2 Slots for Storage

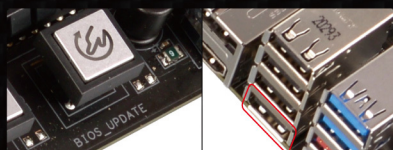
Direct access from CPU and PCH thru PCIE x4 Gen4 or SATA interface

MCU



Light up your gaming soul is from onboard MCU, controls onboard LEDs, 3*5V addressable RGB headers and 1*12V RGB header.

BIOS: W/O CPU / RAM Flash BIOS



When updating BIOS, you may plug on only PSU to MB, then Flash disk contains named BIOS file into bottom one USB 2.0 connector. Press "BIOS Update" button then check light blinking. When it finish, the light will stop blinking.

CPU	Support Intel® 12th & 13th Generation Core™ Processor (include K-SKU) Intel® Core™ i9-13900KF/ i9-13900K/ i9-12900K Processors ...etc 18 Phase (CPU 8 + 8 125W) power by Digital PWM (TDP 300W)
Chipset	Solid capacitor design
Memory	Intel Z790 Express Chipset Dual-channel DDR5 Memory architecture Support 4 x DDR5 up to 6200MHz+(OC) /5600MHz DDR5 SDRAM
Expansion slot	*Note: Please access to ECSIPC official site for the latest memory support list 1 x PCI Express x16 (Gen5) 1 x PCI Express x16 (Gen4) 1 x PCI Express x1 (Gen3) 1 x M.2 2230 Slot , Support WiFi/BT Module 4 x M.2 Slots for SSD a) CPU_M2 (Type 2242/2260/2280), Support PCIe x4 Gen4 NVMe SSD b) M2_1 (Type 2242/2280) : Support PCIe x4 Gen4 SSD c) M2_2 (Type 2242/2280) : Support PCIe x4 Gen4 SSD d) M2_3 (Type 2242/2260/2280) : Support PCIe x4 Gen4 SSD& Support M.2 SATA SSD
Storage	PCIe RAID 0,1,5 6 x SATA 6Gb/s (4 from Z790, 2 from ASM1061)
Audio	SATA RAID 0,1,5,10 (4 from Z790) Realtek ALC1220 8-channel High Definition audio CODEC
LAN	*Smart multiple streaming operation
Rear Panel I/O	Intel i225V B3 2.5G LAN 1 x Clear CMOS button 4 x USB 2.0 ports (bottom one for update BIOS) 1 x HDMI 2.0b port 1 x DP 1.4a port 2 x USB3.2 Gen1x1 (5Gbps) ports 2 x USB3.2 Gen2x1 (10Gbps) ports 1 x RJ45 2.5G port 1 x USB3.2 Gen2x1 (10Gbps) port 1 x USB3.2 Gen2x2 (20Gbps) Type C port 2 x Antenna connectors (for expansion)
Internal I/O Connectors & Headers	5+1 x Audio ports (5 x audio jacks , 1 x Optical) 1 x 24-pin ATX Power Supply connector 2 x 8-pin 12V Power Supply connector 2 x 4-pin CPU_FAN connectors 4 x 4-pin SYS_FAN connectors 1 x 4-pin AIO_PUMP_FAN connector 1 x Front Audio header 1 x Front Panel header 1 x Buzzer header 1 x Front USB3.2 Gen2x1 (10Gbps) header , Support 1 port 1 x Front USB3.2 Gen1x1 (5Gbps) header , Support 2 ports 2 x Front USB2.0 headers , Support 4 ports 1 x Power on button 1 x Reset button 1 x 80P switch button 1 x Quick OC button 1 x BIOS Setup button 1 x BIOS update button 3 x 5V addressable RGB headers 1 x 12V RGB header
System BIOS	1 x POST LED AMI BIOS with 128MB SPI Flash ROM
Form Factor	Supports Multi-Language BIOS ATX : 305 * 244 mm



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