

JW 14450HX

Intel Raptor Lake-HX All-in-One Motherboard

JW 14450HX standard Thin-MINI ITX all-in-one motherboard, designed based on the Intel Alder/Raptor Lake-HX platform. The motherboard supports dual-channel DDR4 memory, NVME mode M.2 SSD, and PCIE/CNVI mode WiFi+BT wireless network access. It features a wide range of external expansion interfaces and can be adapted to different types of products such as PCs, AIOs, and miniPCs.

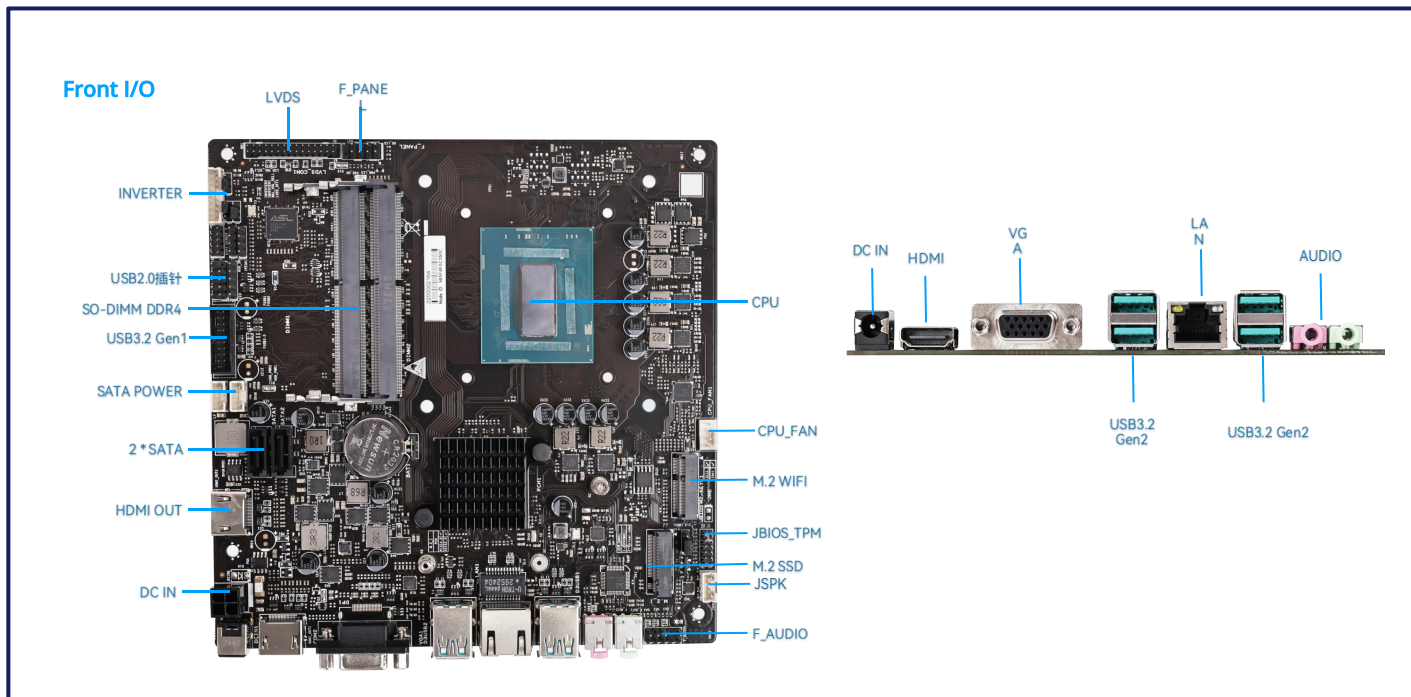


- Based on Intel Alder/Raptor Lake-HX Platform
- Designed with 4+1+1 PHASE power supply, CPU power consumption 55W
- Dual-channel SO-DIMM DDR4 memory interface
- 1 x M.2 2230 slot (supports WiFi, BT)
- 1 x M.2 2280 slot (supports NVME SSD)
- Rear IO provides 4×USB3.2 Gen2 Type-A ports
- Onboard pin headers can expand to 2×USB3.0, 3×USB2.0 ports
- Onboard 2 x HDMI, 1 x VGA (optional DP/COM), 1 x LVDS
- Integrated Gigabit Ethernet card (supports Wake-on-LAN)

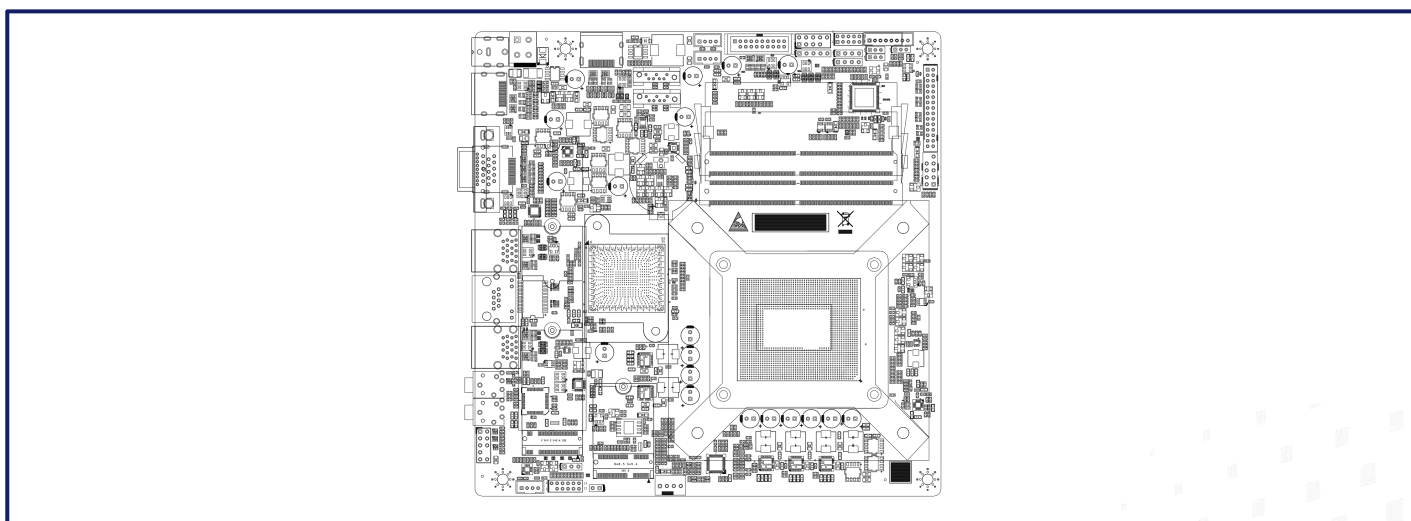
01 Specifications

CPU	Intel I5-14450HX
Chipset	HM670/HM770
Graphics Card	Intel UHD Graphics
Memory	2 x SO-DIMM DDR4 3200 MHz, supports up to 64GB (32GB per DIMM)
System	WINDOWS 11
BIOS	128M flash ROM, AMI UEFI BIOS, PC Health, WOL
Storage	1 x M.2 2242/2280, supports PCIE GEN4x4 NVME SSD
	2 x SATA Gen3 Port (2 x SATA Power)
Network	1 x 1000M RJ45 network interface
	1 x M.2 2230 WIFI/BT slot (supports PCIe/USB/CNVi mode)
Display Interface	1 x HDMI interface; 1×HDMI interface (side output); 1 x VGA (optional, with COM/DP COLAY)
Audio Interface	1 x Line out, 1 x Mic in (3.5mm Audio Jack) 1 x F_AUDIO, 9-pin header, 2*5-1 2.54mm specification
	1 x 4-pin speaker interface (3W/4Ω x2)
USB Interface	Rear IO: 4 x USB3.2 Gen2 (10G) Onboard: 3 x USB2.0, 2 x USB3.2 Gen1 (5G)
LVDS	1×LVDS 30PIN pin header, 1×LCD_VOL display voltage jumper (5V/12V) 1×4PIN MON_SW pin header, 1×LVDS_OFF jumper
Backlight	1×8PIN INVERTER interface (Backlight +/-), 1×BKL_VOL backlight voltage jumper (12V/19V)
Serial port	1 x COM (optional, shared with VGA/DP COLAY)
Front panel	1 x F_PANEL, 2*5pin-1 (2.54 pin header)
Others	1 x CPU fan 4Pin pin header, 1 x CLR_CMOS 3Pin pin header, 1 x JBIOS_TPM 2*6Pin-1 pin header
Power input	12~19V DC IN, 4PIN ATX socket
Dimensions	Thin Mini-ITX motherboard specification, 170 x 170 mm x 6L
Operating temperature	-10~50 degrees Celsius
Operating humidity	10%~90% non-condensing
Storage temperature	-20~70 degrees Celsius
Non-operating humidity requirements	5%~95% non-condensing

Product view



Dimensions



Product Selection

Model	Product Configuration
JW 14450HX-VGA	1*LAN/4*USB3.2 GEN2/1*VGA/1*HDMI/ 1*LVDS
JW 14450HX-DP	1*LAN/4*USB3.2 GEN2/1*DP/1*HDMI/ 1*LVDS
JW 14450HX-COM	1*LAN/4*USB3.2 GEN2/1*COM/1*HDMI/ 1*LVDS