

JW 1245H V2.0

Intel 12th Gen U/P/H mobile platform AIO motherboard

JWIPC 12450H all-in-one motherboard is based on the Intel 12th Gen Alder Lake mobile platform processor, the motherboard supports dual-channel DDR4 memory, supports SATA/NVME mode M.2 SSD, and supports different network access modes such as RJ45/WIFI/BT/CNVI; it also supports a variety of peripheral interfaces, adapting to various types of all-in-one machines in the industry.



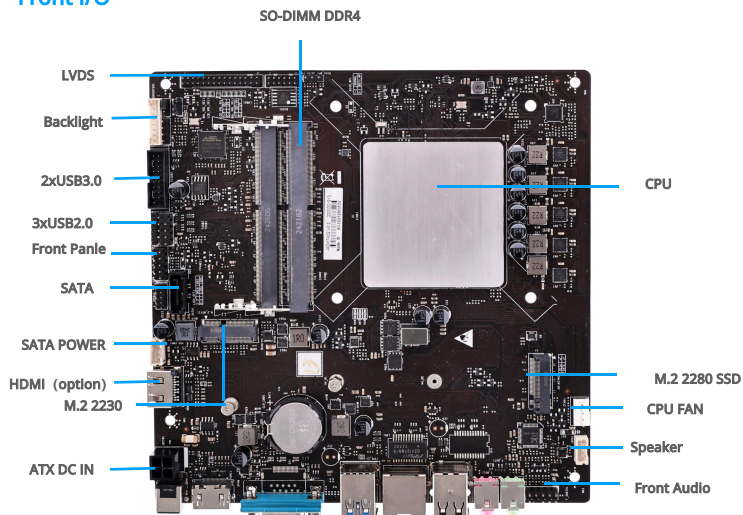
- Based on Intel Alder Lake mobile platform
- Dual-channel SO-DIMM DDR4 memory
- 1×M.2 2230 slot (supports WIFI/BT/CNVI)
- 1×M.2 2280 slot (supports SATA/NVME)
- Rear IO provides 2×USB3.0, 2×USB2.0
- Onboard pin headers can expand to 2 USB3.0, 3 USB2.0 ports
- 1 x HDMI port
- 1 x LVDS port, supports up to FHD 120HZ
- 1 x COM (optional VGA or DP)
- 1x Gigabit Ethernet (optional dual channels), supports Wake-on-LAN
- Supports LVDS gravity sensing (Sensor version only)

01 Specifications

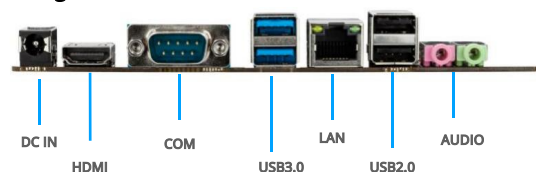
CPU	Intel I5-12450H
Chipset	Intel Alder Lake
Graphics	Intel integrated graphics
Memory	2×DDR4 SO-DIMM DDR4 2666MHz/2933MHz/3200MHz Max:64G
Display Interface	1×HDMI port; 1 x LVDS; 1 x HDMI (optional side output); 1 x COM (optional DP/VGA)
Audio	Realtek ALC897 High Definition Audio Codec
Storage	1×M.2 2280 slot (supports SATA/NVME mode) 1×SATA3.0 port + 1×SATA power port
Network	1×RJ45 port; Realtek RTL8111M Gigabit Ethernet Controller
WiFi	1×M.2 2230 slot (supports WIFI/BT/CNVI)
Audio Interface	1 x Line out, 1 x Mic in (3.5mm Audio Jack) 1 x F_Audio header (2 x 5-1 2.54mm specification) 1 x 4pin speaker connector (3W/4Ω x2)
USB Interface	IO Interface: Provides 2×USB3.0; 2×USB2.0 (optional 1×RJ45 interface) Onboard Pin Headers: Expand 2 USB3.0 ports; Expand 3 USB2.0 ports
LVDS	1×LVDS 30PIN header (supports up to 120HZ), 1×LCD_VOL_SEL display voltage jumper (5V/12V) 1×4PIN MON_SW header, 1×LVDS_OFF jumper
Backlight	1×8PIN INVERTER interface (backlight +/-), 1×BKL_VOL backlight voltage jumper (12V/19V)
Pin Headers	1×FPANEL panel header, 1×4PIN CPU fan
Others	1×4PIN DC socket, 1×JBIOs socket
Power Input	12~19V DC IN, 2.5/5.5 DC Jack power interface
BIOS Support	128M flash ROM, AMI UEFI BIOS, PC Health, WOL
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 requirement	5%~95% non-condensing
Operating system	Win10 / W11 / Ubuntu

Product view

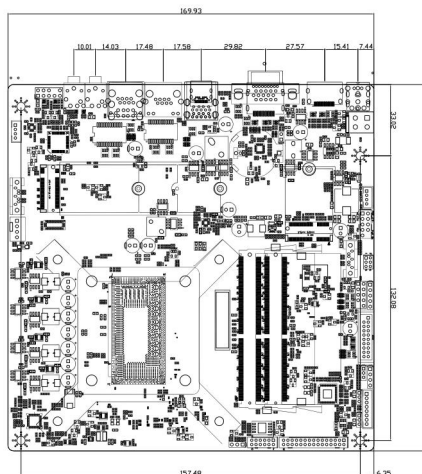
Front I/O



Standard Configuration:



Dimensions



Product Selection

Model	Product Configuration
JW 210H V2.0	1*LAN/2*USB3.0/2*USB2.0/1*COM/1*HDMI/1*LVDS
JW 210H-S V2.0	1*LAN/2*USB3.0/2*USB2.0/1*COM/1*HDMI/1*LVDS (Sensor version only)
JW 210H-DP V2.0	1*LAN/2*USB3.0/2*USB2.0/1*DP/1*HDMI/1*LVDS
JW 210H-VGA V2.0	1*LAN/2*USB3.0/2*USB2.0/1*VGA/1*HDMI/1*LVDS