JW H610 V2.1   Intel 12th/13th/14th Gen Desktop Platform AIO Motherboard

JWIPC H610-P all-in-one motherboard is based on the Intel 12th/13th/14th generation Alder/Raptor Lake platform processors. The motherboard supports dual-channel DDR4 memory, SATA/NVME mode M.2 SSD, and different network access modes such as RJ45/WIFI/BT. It also supports a wide range of peripheral interfaces, making it suitable for various types of all-in-one machines in the industry.
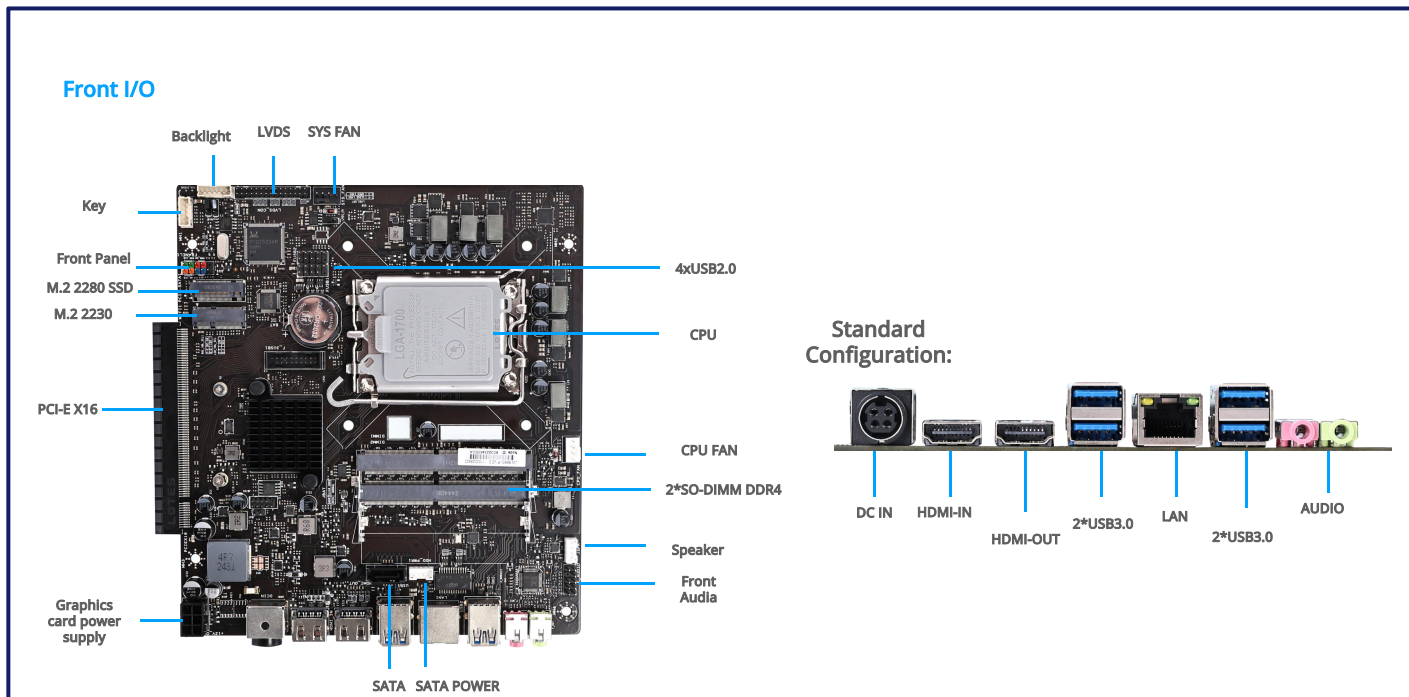

- Based on the Intel Alder/Raptor Lake platform
- Supports 12th/13th/14th Generation Intel Core Processors
- Dual-channel SO-DIMM DDR4 memory
- 1×M.2 2230 slot (supports WIFI/BT)
- 1×M.2 2280 slot (supports SATA/NVME mode)
- Rear IO provides 4 x USB3.0
- Onboard pin header can expand 4 USB2.0 ports
- 1 x HDMI IN, 1 x HDMI OUT, 1 x LVDS
- 1 x Gigabit Ethernet card, supports Wake-on-LAN function
- 1 x PCI-E X16 (supports up to 170W)

01
Specifications

CPU	Intel LGA1700 12th/13th/14th Generation CPU TDP: 65W Options: Intel Core i7/Core i5/Core i3/Pentium/Celeron
Chipset	Intel H610 Chipset
Graphics	Intel integrated graphics
Memory	2×DDR4 SO-DIMM DDR4 2666MHz/2933MHz/3200MHz Max: 64G
Display Interface	1x HDMI-IN; 1x HDMI-OUT; 1x LVDS
Audio	Realtek ALC897 High Definition Audio Codec
Storage	1× M.2 2280 Slot (supports SATA/NVME mode)
	1× SATA3.0 Interface + 1× SATA Power Interface
Network	1× RJ45 Gigabit Ethernet Port, RTL8111H
WiFi	1× M.2 2230 Slot (supports WIFI/BT)
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: 4 x USB3.0 Onboard Header: 2 sets of USB2.0 headers (expandable to 4 USB2.0 ports)
LVDS	1×LVDS 30PIN header, 1×LCD_VOL_SEL display voltage jumper (5V/12V) 1×4PIN MON_SW header, 1×LVDS_OFF jumper
Backlight	1×6PIN INVERTER interface (Backlight +/-), 1×BKL_VOL backlight voltage jumper (12V/19V)
Pin Headers	1×FPANEL panel header, 1×4PIN CPU fan, 1×4PIN SYS fan
Others	1×6PIN graphics card power interface, 1×BIOS socket
Power Input	19VDC IN, 2.5/5.5 DC Jack power interface
BIOS Support	128M flash ROM, AMI UEFI BIOS, PC Health, WOL
Dimensions	170mm*190mm
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

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Product view

Front I/O

Backlight LVDS SYS FAN

Key

Front Panel
M.2 2280 SSD
M.2 2230

PCI-E X16

Graphics
card power
supply

4xUSB2.0

CPU

CPU FAN

2*SO-DIMM DDR4

Speaker

Front
Audia

SATA SATA POWER

Standard
Configuration:

DC IN   HDMI-IN

HDMI-OUT

2*USB3.0   LAN

2*USB3.0

AUDIO

03
Dimensions

04
Product Selection

Model	Product Configuration
JW H610-P V2.1	1 *LAN/4*USB3.0/1*HDMI-IN/1*HDMI-OUT/ 1*LVDS/1*PCI-E X16