

CPU information

CPU Specifications	CPU Brand	CPU Model	Frequency	Turbo	CPU power consumption (W)	Maximum turbo power consumption (W)
12th Generation I3	Intel Core	12100	Quad -core 3.3 G	4.3 G	60	89
	Intel Core	12300	Quad -core 3.5G	4.4 G	60	89
12th Generation I5	Intel Core	12400	Six-core 2.5G	4.4G	65	117
		12500	Six core 3.0G	4.6G	65	117
		12600	Six core 3.3G	4.8G	65	117
12th Generation I7	Intel Core	12700	Twelve cores 2.1G	4.9G	65	180
12th Generation I9	Intel Core	12900	16 cores 2.4 G	5. 1 G	65	202
13th Generation I3	Intel Core	13100	Quad-core 3.4G	4.5G	60	89
13th Generation I5	Intel Core	13400	Ten core 2.5G	4.6G	65	154
13th Generation I5	Intel Core	13500	Fourteen cores 2.5G	4.8G	65	154
13th Generation I5	Intel Core	13600	Fourteen cores 2.7G	5.3G	65	154
13th Generation I7	Intel Core	13700	Sixteen cores 2.1G	5.2G	65	219
13th Generation I9	Intel Core	13900	24 cores 2.3G	5.6G	65	219
14th generation i3	Intel Core	14100	Quad-core 3.5GHz	4.7G	60	110
14th generation i5	Intel Core	14400	Ten-core 2.5GHz	4.7G	65	148
14th generation i5	Intel Core	14500	Fourteen cores 2.6GHz	5.0G	65	154
14th generation i5	Intel Core	14600	Fourteen cores 2.7GHz	5.2G	65	154
14th generation i7	Intel Core	14700	Twenty cores 2.1GHz	5.4G	65	219
14th generation i9	Intel Core	14900	24 cores 2.0GHz	5.8G	65	219

Product Specifications

PC model	P30H-OPS-H610	
PC size	180mm*195mm*30mm	
CPU	Support Alder Lake 12th generation LGA1700 Core i3-12100, i5-12400, i7-12700, i9-12900, etc.	
	Support Alder Lake 13th generation LGA1700 Core i3-13100, i5-13400, i7-13700, i9-13900, etc.	
	Support Alder Lake 14th generation LGA1700 Core i3-14100, i5-14400, i7-14700, i9-14900, etc.	
Chipset	H610	
Power supply	1*DC_IN	The inner diameter of the DC head is 2.5MM, supporting 12V/19V full load power consumption of the motherboard is about 150W. It is recommended to use a 12V 15A or 19V 10A power supply.
	1*DC_ATX (4Pin)	
Memory	2*SO DIMM slots	NB-DDR4 memory, supports 2133/2400/2666/2933/3200MHz memory, maximum support 64G
Internet function	1*LAN port	The default support is Realtek 8111H Gigabit network card, and the domestic Yutaiwei YT6801 Gigabit network card is optional. It supports network wake-up and PXE functions; it cannot be changed to dual network or POE;
	1*MINI_PCIE interface	Support WiFi/4G/Bluetooth module
Display functions	Intel UHD Graphics 730/770	Support single display, dual display/triple display copy, dual display/triple display expansion, single display under SHELL
	1*HDMI 2.0 interface	(Motherboard side) supports 4K resolution 4096/3840*2160@60Hz
	1*DP interface	(Motherboard side) does not support DP++, supports 4K resolution 4096/3840*2160@60Hz
	1*HDMI 2.0 interface	(OPS side) supports 4K resolution 4096/3840*2160@60Hz
	1*DP interface	(OPS side) does not support DP++, supports 4K resolution 4096/3840*2160@60Hz
USB Function	3*USB3.2 interface	External standard USB3.2 Gen 1 interface, maximum transmission bandwidth is 5Gbps
	3*USB2.0 interface	External standard USB2.0 interface, maximum transmission bandwidth is 480Mbps
	The motherboard's external USB3.0_2 lower interface is USB3.2, and the upper interface is USB2.0	
Sound Features	Integrated Realtek ALC 897 HD digital audio decoder, 6-channel high-fidelity audio controller;	
	1*LINE_OUT interface	Support audio output (green)
	1*MIC_IN interface	Support microphone input (red)
Hard disk function	1*NGFF interface	Supports Key-M interface M.2 2280 hard disk, optional M.2 2242 hard disk, supports NVME (PCIE) protocol by default, and can change hardware to support SATA protocol;
	1*SATA 2 interface	Standard SATA hard disk interface, supports SATA 3.0
	1*SATA_PWR pin	Hard disk power supply pin, can take 5V, 12V power (4Pin, 1*4Pin, 2.54mm)
Switch function	1*AUTO_SW pin	Hardware control power-on pin (3Pin, 1*3Pin, 2.0mm)
	1*PWR-BUTN button	Switch button
	1*RST-BTN button	Reset Button

Other I/O	1*SIM_CARD slot	Support SIM card, SIM card is required when using 4G
	1*GPIO_CN pin	GPIO control pins (10Pin, 2*5Pin, 2.0mm)
	1*CLR-GHO-SW button	One-key restore button for system hardware and reset and discharge buttons for the motherboard
	1*LED light	Power indicator and hard disk status indicator
	1*OPS interface	80Pin standard OPS interface
Operating Environment	Working temperature: -10 °C ~60°C; Working humidity: 5%~95% relative humidity, no condensation	
BIOS	AMI BIOS, supports power-on, scheduled power-on, remote power on and off, and intelligent device identification	
Watch Dog	Watchdog programming, support hardware reset function (256 levels, 0~255 seconds)	
Operating system	Support Windows 11, Windows 10, LINUX, etc.	