

Product specification

Size	170mm*170mm		
CPU	Support Skylake 6th generation, Kabylake 7th HQ series i5, i7		
chipset	Skylake, Kabylake	High-speed chipset	
power supply	1*DC_IN	The inner diameter of the DC head is 2.5MM and supports 12V/19V The power consumption of the motherboard is about 70W at full load, and it is recommended to use a 12V7A or above power supply	
	1*DC_ATX (4Pin)		
RAM	2*SODIMM	NB-DDR4 Memory, support 2133/2400MHZ memory, maximum support 32G	
Network features	1*LAN	Realtek 8111H Gigabit Ethernet port, support Wake on LAN, PXE function	
	1*MINI_PCIE	Support WIFI/3G/4G/Bluetooth module	
Display function	Intel HD Graphics 530/630 Super-core graphics card, support single display, dual display/triple display copy, dual display/triple display expansion, single display under DOS		
	1*VGA DB15	Support resolution 1920*1080@60HZ	
	1*HDMI1 1.4	Support 4K resolution 4096/3840*2160@30Hz	
	1*HDMI2 1.4	Support 4K resolution 4096/3840*2160@30Hz	
	1*EDP1	Support 4K resolution 4096/3840*2160@30Hz (30Pin, 2*15Pin, 2.0mm)	
	1*LVDS/EDP2	Support resolution 1920*1080@60HZ (30Pin, 2*15Pin, 2.0mm)	
	LVDS is supported by default, EDP2 is optional, shared pins, EDP2 supports 4K		
	1*LVDS_PWR	LVDS/EDP2 Working voltage control pin (6Pin, 2*3Pin, 2.0mm)	
	1*INVERT	LVDS/EDP Backlight control pin (6Pin, 1*6Pin, 2.0mm)	
	USB	4*USB3.0	Post-standard USB3.0
		2*USB2.0	Post-standard USB2.0 (2*LAN The motherboard does not have this interface)
1*F_USB1		Front USB2.0 pin, one set has 2*USB2.0 (9Pin, 2*5Pin, 2.0mm)	
1*F_USB3		Front USB2.0 pin, one set has 2*USB2.0 (9Pin, 2*5Pin, 2.0mm)	
1*F_USB3_A		Front USB3.0 pin, one set has 2*USB3.0 (19Pin, 2*10Pin, 2.0mm)	
Sound function	Integrated Realtek ALC660/662/892 HD digital audio decoder, 6-channel high-fidelity audio controller		
	1*LINE_OUT	Support audio output (green)	
	1*MIC_IN	Support microphone input (red)	
	1*INT_SPK	Support 8 ohm 5 watt speaker output (power amplifier) (4Pin, 1*4Pin, 2.0mm)	
	1*F_AUDIO	Standard audio pin (9Pin, 2*5Pin, 2.0mm)	
Hard Disk Function	1*M.2	M.2 2280/2242 optional, default SATA protocol, optional NVME (PCI-E) protocol	
	1*MSATA	Support MINI SATA disk, support MSATA 3.0	
	1*SATA1	Support MINI SATA disk, support MSATA 3.0	
	1*SATA2	Support MINI SATA disk, support MSATA 3.0	
2*SATA_PWR	Hard disk power supply pins, which can be powered by 5V or 12V. (4Pin, 1*4Pin, 2.54mm)		
Switch function	1*F_PANEL	Switch, power light, hard disk light, restart pin (9Pin, 2*5Pin, 2.54mm)	
	1*AUTO_SW	Hardware control power-on pin (3Pin, 1*3Pin, 2.0mm)	
Other I/O	1*COM1	Support standard RS232/RS422/RS485 optional (BIOS setting) (9Pin, 2*5Pin, 2.54mm)	
	1*COM2	Only supports standards RS232 (9Pin, 2*5Pin, 2.54mm)	
	1*COM3~6	Only supports standards RS232 (39Pin, 2*20Pin, 2.0mm)	
	1*JCOM1/2	COM1/2 Pin 9 is set to 0V/5V/12V (6Pin, 2*3Pin, 2.0mm)	
	1*SIM_CARD	Support SIM card, SIM card is required when using 3G/4G	
	1*CLR_CMOS	Motherboard reset and discharge pins (3Pin, 1*3Pin, 2.0mm)	
	1*FAN1	Fan pin (3Pin, 1*3Pin, 2.54mm)	
	1*SYS_FAN	System fan pin (3Pin, 1*3Pin, 2.54mm)	
	1*GPIO_CN	GPIO Control pin (10Pin, 2*5Pin, 2.0mm)	
	1*PCI-E 16X	Optional with standard PCI-E interface, can be connected to independent graphics card	
Operating environment	Working temperature: -20°C~60°C; Working humidity: 5%~95% relative humidity, non-condensing		
BIOS	AMI BIOS, Support power-on boot, timing boot, remote switch machine intelligent identification		
Watch Dog	Watchdog programming, support hardware reset function (256 levels, 0~255 seconds)		
operating system	Support Windows 10, Windows 8, Windows 7, LINUX etc.		