

## Product Specifications

Board size	170mm (L) *170mm (W) *20mm (H)
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CPU	QM9400H Support 4代 CPU: I3-4010U, I5-4200U, I7-4500U etc QM9500H Support 5代 CPU: I3-5010U, I5-5200U, I7-5500U etc	
chipset	Haswell-U, Broadwell-U High-speed chipset	
Memory Support	1*DDR3 SODIMM memory slot, Support 1600MHz memory, low voltage 1.35V, maximum Support 8GB	
Power	1*DC_IN	2C motherboard only supports 12V; 6C motherboard supports 12V/19V, the inner diameter of the DC head is 2.5MM Mainboard power consumption: about 30W. It is recommended to use 12V5A or above power supply
	1*DC_ATX	
Display Function	4th generation integrated Intel® HD4400 graphics controller, Support single display, dual display/triple display copy, dual display/triple display expansion, single display under DOS	
	5th generation integrated Intel® HD5500 graphics controller, Support single display, dual display/triple display copy, dual display/triple display expansion, single display under DOS	
	1*VGA DB15 Port	Support Resolution 1920*1080@60HZ
	1*VGA_OUT Pin	Support Resolution 1920*1080@60HZ (12Pin, 1*12Pin, 2.0mm)
	1*HDMI 1.4 Port	Support Resolution 4096/3840*2160@30HZ
	1*HDMI_CON Pin	Support Resolution 4096/3840*2160@30HZ (16Pin, 2*8Pin, 2.0mm)
	1*LVDS/EDP Pin	Support Resolution 1920*1080@60HZ (30Pin, 2*15Pin, 2.0mm)
	LVDS and EDP same common pin, default LVDS signal, EDP signal can be changed	
	1*VCC_SEL Pin	LVDS/EDP Voltage control Pin (6Pin, 2*3Pin, 2.0mm)
	1*INVERT Pin	LVDS/EDP Backlight switch control Pin (6Pin, 1*6Pin, 2.0mm)
	1*BKLT_CTRL Pin	LVDSBacklight brightness adjustment Pin (4Pin, 1*4Pin, 2.0mm)
	Network Function	1*RJ45 LAN Port RTL8111F or Intel i211 Gigabit Ethernet chip, Support Wake on LAN and PXE diskless boot function.
Harddisk Function	1*MSATA Port	Support MSATA disk.
	2*SATA Port	Standard SATA3.0 hard disk Port, maximum transfer speed 6.0 Gbps
	2*SATA_PWR Pin	Hard disk power supply Pin, which can take 5V, 12V. (4Pin, 1*4Pin, 2.54mm)
Audio Function	Integrated Realtek ALC662 HD digital audio decoder, 6-channel high-fidelity audio controller	
	1*LIN_OUT Port	Support Audio output (green)
	1*MIC_IN Port	Support Microphone input (red)
	1*INT_SPK Pin	Amplifier Support 8 ohm 5 watt speaker dual channel output (4Pin, 1*4Pin, 2.0mm)
	1*F_AUDIO Pin	Standard audio Pin (9Pin, 2*5Pin, 2.54mm)
USB Function	2*USB3.0 Port	Rear Standard USB3.0 Port
	2*USB2.0 Port	Rear Standard USB2.0 Port
	1*F_USB2 Pin	Front USB2.0 Pin , one group have 2*USB2.0 (9Pin, 2*5Pin, 2.54mm)
	1*F_USB3 Pin	Front USB2.0 Pin , one group have 2*USB2.0 (9Pin, 2*5Pin, 2.54mm)
Switch Function	1*F_PANEL Pin	Switch, power light, hard disk light, restart Pin (9Pin, 2*5Pin, 2.54mm)
	1*AUTO_SW Pin	Hardware control power-on and boot Pin (3Pin, 1*3Pin, 2.0mm)
Other I/O	1*COM1 Pin	Serial port, only Support RS232 (9Pin, 2*5Pin, 2.54mm)
	1*COM2 Pin	Serial port, COM2 Support RS232/RS422/RS485 optional (9Pin, 2*5Pin, 2.54mm)
	1*JCOM1 Pin	Control COM1 pin 9 voltage 0V/5V/12V optional (6Pin, 2*3Pin, 2.0mm)
	1*JCOM2 Pin	Control COM2 pin 9 voltage 0V/5V/12V optional (6Pin, 2*3Pin, 2.0mm)
	JP9/JP10/JP11 Pin	COM2 Support RS422 and RS485 signal jumper setting (6Pin, 2*3Pin, 2.0mm)
	COM3-COM6 Pin	Serial port, Support standard RS232; (39Pin, 2*20Pin, 2.0mm)
	1*SIM_CARD 卡槽	Support SIM卡, SIM card is required when using 3G/4G
	1*CLR_CMOS Pin	主板清零、放电 Pin (2Pin, 1*2Pin, 2.54mm)
	1*J_GPIO Pin (Optional)	GPIO control Pin (10Pin, 2*5Pin, 2.0mm)
	1*SYS_FAN Pin	System fan Pin, full speed, no Support temperature control (3Pin, 1*3Pin, 2.54mm)
	1*CPU_FAN Pin	CPU fan Pin, Support temperature control (3Pin, 1*3Pin, 2.54mm)
Operating environment	Working temperature: -20°C-60°C; Working humidity: 5%-95% relative humidity, non-condensing	
BIOS	AMI BIOS, Support Power on, start on time, remote switch on and off, intelligent identification of equipment	
Watch Dog	Watchdog programming, Support hardware reset Function (256 levels, 0-255 seconds)	
operating system	Support Windows 10, Windows 8, Windows 7, Linux etc	

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