

Micro-ATX Form Factor
Intel Q170 Chipset

PH10SU



Intel vPro



Dual LAN



Serial Port



M.2 Support All Solid Capacitor



Features

Support 6th generation (Skylake) Intel® Core™ i7, i5, i3 processors

Dual channel DDR4 with four connectors for MAX. 64GB memory

Rear RS232 with power output

On board COM port header configurable for RS232/422/485

Integrated Six-channel High Definition audio

Features dual high speed Gigabit Ethernet connection

DP + HDMI out dual display output

Support Type 2280, 2260, 2242 M.2 (NGFF)

Intel® vPro business-grade technology support



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Item	Spec	
Form Factor	Micro-ATX 9.6" x 9.6" (244mm x 244mm)	
Processor	6 th generation Intel® Core processor family with up to 91W TDP in an LGA1151 socket	
Main Memory	<ul style="list-style-type: none"> Support for Dual Channel DDR4 1866/2133 MHz u-DIMMs 	
	<ul style="list-style-type: none"> Support for up to 64GB of system memory 288-pin DDR4 u-DIMM 	4
Chipset	Intel® Q170 Chipset	
Integrated Graphics	Intel® HD Graphics / Iris Graphics (By CPU)	
External Graphics	External graphics support provided through the PCIe 3.0 x 16 bus connector	
Audio	RealTek* ALC662 audio codec for 5.1 (6-channel) High Definition Audio (HD Audio) and AC '97 Audio. Front panel microphone/headphone header with support for HD Audio or AC '97 Audio	
Legacy I/O Controller	Nuvoton* NCT6104D	
External I/O	<ul style="list-style-type: none"> USB 3.0 (Blue) 	4
	<ul style="list-style-type: none"> USB 2.0 (Black) 	2
	<ul style="list-style-type: none"> HDMI 	1
	<ul style="list-style-type: none"> Display Port 	1
	<ul style="list-style-type: none"> J-45 (with integrated status LEDs) 	2
	<ul style="list-style-type: none"> Audio Jack (Mic-in / Line-in / Line-out) 	3
	<ul style="list-style-type: none"> Serial Port (Configurable for power RS232) 	2
	<ul style="list-style-type: none"> Serial Port header (configurable for RS232/422/485) 	2
	<ul style="list-style-type: none"> Parallel port header 	1
	<ul style="list-style-type: none"> MiAPI: Programmable header (support GPIO x 10, SMBUS x 1, UART x 1, Watchdog x 1) with API library supported for Windows OS 	1
Internal I/O	<ul style="list-style-type: none"> USB 3.0 header 	2
	<ul style="list-style-type: none"> USB 2.0 header 	2
	<ul style="list-style-type: none"> Serial ATA (SATA) 6.0 Gb/s interfaces 	5
	<ul style="list-style-type: none"> 4-pin SATA power for DOM 	1
	<ul style="list-style-type: none"> Audio Header (Front Panel Mic-in / Hp-out) 	1
	<ul style="list-style-type: none"> S/PDIF Out Audio Header (4-pin) 	1
	<ul style="list-style-type: none"> PCIe 3.0 x 16 (Blue) 	1
Expansion Capabilities	<ul style="list-style-type: none"> PCIe 2.0 x 4 (Black) 	1
	<ul style="list-style-type: none"> PCIe 2.0 x 1 (Black) 	1
	<ul style="list-style-type: none"> M.2 Support Socket 3 Type2280, 2260, 2242 	1
	<ul style="list-style-type: none"> Hardware monitoring through the Nuvoton* NCT6104D legacy I/O controller, including : Remote thermal sensor 	
Hardware Monitor Subsystem	Remote thermal sensor	
LAN Support	Intel® I219 Gigabit (10/100/1000 Mb/s) LAN	
	Intel® I210 Gigabit (10/100/1000 Mb/s) LAN	
BIOS	AMI UEFI BIOS Support for Advanced Configuration and Power Interface (ACPI)	
Instantly Available PC Technology	<ul style="list-style-type: none"> Support for PCI Express Revision 3.0 Wake on USB, PCI Express, LAN, serial, PS/2, and front panel 	
Power Requirement	ATX 12V PWR Con (24 + 4-pin)	
Environment	<ul style="list-style-type: none"> Operating Temperature : 0°C to +60°C Storage Temperature : -20°C to +70°C 	
	<ul style="list-style-type: none"> CE FCC 	
Safety		
Operating System	Windows 10 64bit, Windows 8.1 64bit, Linux (support by request)	

Packing List

- PH10SU Mainboard
- 50CM SATA Cable
- IO Shield
- Driver CD
- Quick Guide