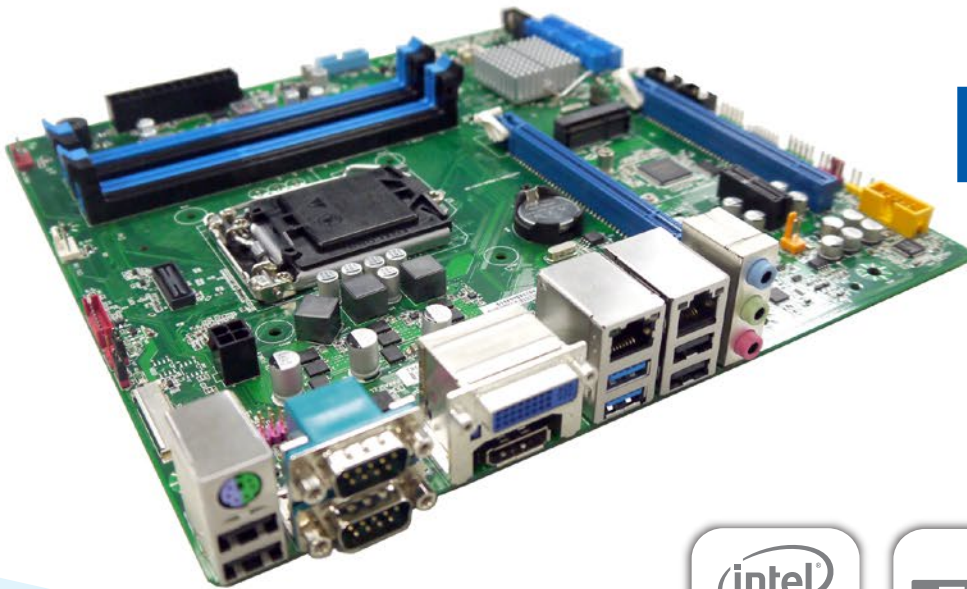


Micro-ATX Form Factor
Intel Q87 Chipset

PH10LU



Intel vPro



Dual LAN



Serial Port



MiniCard Support
(Optional)

Features

Support 4th generation (Haswell) 22nm Intel® Core™ i7, i5, i3 processors

Dual channel DDR3 with four connectors for MAX. 32GB memory

LVDS for embedded system (Optional)

Features Dual Com Ports

Integrated Six-channel High Definition audio

Features dual high speed Gigabit Ethernet connection

Support up to four ports USB 3.0

Eight High Speed USB 2.0 ports support



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Sales Contact

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Item	Spec	SKU-D1	SKU-D2
Form Factor	Micro-ATX 9.6" x 9.6" (244mm x 244mm)		
Processor	4rd generation Intel® Core processor family with up to 95W TDP in an LGA1150 socket Support for Dual Channel DDR3 1333/1600 MHz u-DIMMs		
Main Memory	Support for up to 32GB of system memory 240-pin DDR3 u-DIMM	4	4
Chipset	Intel® Q87 Chipset		
Integrated Graphics	Intel® Graphics Media Accelerator 4600 (Intel® GMA 4600)		
External Graphics	Intel® HD Graphics (By CPU)		
Audio	RealTek* ALC662/888 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	Nuvoton NCT6104D		
External I/O	USB 3.0 (Blue)	2	2
	USB 2.0 (Black)	4	4
	DVI-I	1	1
	Display Port	1	1
	RJ-45 (with integrated status LEDs)	2	2
	Audio Jack (Mic-in / Line-in / Line-out)	3	3
	PS2 (MS / KB Combo)	1	1
	Serial Port (Configurable for power RS232)	2	2
	Serial Port header (configurable for RS232/422/485)	2	2
	Parallel port header	1	1
Internal I/O	USB 3.0 header	2	2
	USB 2.0 header	4	4
	Serial ATA (SATA) 6.0 Gb/s interfaces	6	6
	4-pin system fan header	1	1
	Audio Header (Front Panel Mic-in / Hp-out)	1	1
	S/PDIF Out Audio Header (4-pin)	1	1
	PCIe 3.0 x 16 (Blue)	1	1
	PCIe 2.0 x 1 (Black)	1	
Expansion Capabilities	PCIe 2.0 x 1 (Black)	1	1
	PCIe 2.0 x 4 (Black)	1	1
	PCI Express* Full-Mini Card slot with Half-Mini Card support		1
	Hardware Monitor Subsystem	Hardware monitoring through the Nuvoton* NCT6104D legacy I/O controller, including: • Remote thermal sensor	
LAN Support	Intel® I217 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	• 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	• Operating Temperature: 0°C to +60 °C • Storage Temperature: -20°C to +70°C		
	Safety	• CE • FCC • UL	

Packing List

- PH10LU Mainboard
- IO Shield
- Quick Guide
- 50CM SATA Cable
- Driver CD