



Thin Mini-ITX Form Factor
Intel Haswell Q87 chipset

PH12LI



Thin Mini-ITX



Dual GLAN



MiniCard Support



USB3.0



DP out / HDMI

Features

Support Intel 4th generation Intel Core Processor

LGA1150 Socket H3 CPU compatible (up to 65W)

Intel® vPro™ Technology support for business security

Dual high speed Gigabit Ethernet connection

Two PCI Express Mini Card connector for expansion

Features 4 SATA3 (6Gbps)

4 High-Speed external USB 3.0 ports support

Dual display connectivity by DP-out & HDMI

Embedded LVDS connectivity



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Sales Contact

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Item	Spec	SKU-B	SKU-D
Form Factor	Low-profile Mini-ITX (20 millimeters [0.79 inches] x 170.18 millimeters [6.7 inches] x 170.18 millimeters [6.7 inches])		
Processor	Intel Haswell H3 LGA1150 CPU Socket		
Chipset	<ul style="list-style-type: none"> Support up to Dual / Quad core 65W Intel Lynx Point Q87 Chipset 		
Memory	<ul style="list-style-type: none"> Support for DDR3 1066/1333/1600 MHz SO-DIMMs Support for up to 16 GB of system memory 204-pin DDR3 SO-DIMM 	2	2
Audio Controller	<ul style="list-style-type: none"> RealTek* ALC888 audio codec for 7.1 (8-channel) High Definition Audio (HD Audio) 		
Expansion Capability	<ul style="list-style-type: none"> PCI Express x 4 slot 	1	1
	<ul style="list-style-type: none"> PCI Express Full-/Half-Mini Card slot PCI Express Half-Mini Card slot 19V DC Jack/option for 12V DC Jack 	1	1
External I/O	<ul style="list-style-type: none"> HDMI DP-out 	1	1
	<ul style="list-style-type: none"> USB 3.0 	4	4
	<ul style="list-style-type: none"> RJ-45 	2	2
	<ul style="list-style-type: none"> Line-out Mic-in 	1	1
	<ul style="list-style-type: none"> 40p Embedded LVDS connector front audio Header (Mic/HP) standard header for DMIC audio header to support system stereo speaker 	1	1
Internal I/O	<ul style="list-style-type: none"> USB 2.0 front panel ports Serial port header SATA 3.0 Gb/s CPU fan header 	3	3
	<ul style="list-style-type: none"> Legacy I/O Controller (ITE IT8519) 	2	2
	<ul style="list-style-type: none"> Intel® vPro™ Technology support TPM security by Nuvoton NPCT420AA0WX (optional) 	4	4
	<ul style="list-style-type: none"> Intel Clarkville I217-LM/I210-AT Gigabit (10/100/1000 Mb/s) IC 	1	1
	<ul style="list-style-type: none"> UEFI Bios 64+32Mb Dual SPI Support for Advanced Configuration and Power Interface (ACPI) setting 	1	1
Instantly Available PC Technology	<ul style="list-style-type: none"> Suspend to RAM support Wake on PCI Express, LAN, front panel, serial, and USB ports 		
Hardware Monitor Subsystem	<ul style="list-style-type: none"> Hardware monitoring through the Nuvoton6683D legacy I/O controller, including: <ul style="list-style-type: none"> Remote thermal sensor 		
Power Requirement	<ul style="list-style-type: none"> DC-in 19V (5.1 mm/ID, 7.4 mm/OD) / ATX 2pin 	V	
	<ul style="list-style-type: none"> DC-in 12V (2.5 mm/ID, 5.5 mm/OD) / ATX 4pin (optional) 		V
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			
OS Support	win7, win8.1, win10, linux support by request		

Packing List

- PH12LI Mainboard
- 45CM SATA Power Cable
- Driver CD
- 50CM SATA Cable
- 2*IO Shield (Half and Full height)
- Quick Guide