



ThinMini-ITX Form Factor
Intel Haswell Q87 chipset

PH12LI



Thin Mini-ITX



Dual GLAN



MiniCard Support



USB3.0



DP-out/HD-out

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 Hi-Speed external USB3.0 ports support

Dual display connectivity by DP-out & HD-out

Embedded LVDS connectivity



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Sales Contact

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Item	Spec	
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 Support up to Dual/Quad core 65W	
Chipset	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
Display	<ul style="list-style-type: none"> HD-out & DP-out connector 40P Embedded LVDS connector 	
Audio	<ul style="list-style-type: none"> RealTek* ALC888 audio codec for 7.1 (8-channel) High Definition Audio (HD Audio) Included are: <ul style="list-style-type: none"> - Back panel audio connectors: Line-out & Mic - 1 x Audio header for stereo speakers - 1 x Audio header for front Panel Mic/Hp - 1 x Audio header for DMIC 	
Expansion Capability	<ul style="list-style-type: none"> PCI Express x 4 slot PCI Express Full-/Half-Mini Card slot PCI Express Half-Mini Card slot 	1 1 1
Peripheral Interfaces	<ul style="list-style-type: none"> USB 2.0 front panel ports Serial port header SATA 3.0 Gb/s 	3 (Headers) 2 4
Legacy I/O	Legacy I/O Controller (ITE IT8519)	
Security	<ul style="list-style-type: none"> Intel® vPro™ Technology support TPM security by Nuvoton NPCT420AA0WX (optional) 	
LAN Support	Intel Clarkville I217-LM/I210-AT Gigabit (10/100/1000 Mb/s) IC Dual Ethernet LAN controller including an RJ-45 back panel connector with integrated status LEDs	
BIOS	<ul style="list-style-type: none"> UEFI Bios 64+32Mb Dual SPI Support for Advanced Configuration and Power Interface (ACPI) setting 	
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	Hardware monitoring through the Nuvoton6683D legacy I/O controller, including: <ul style="list-style-type: none"> Remote thermal sensor Speed control for 4-pin system fan header and 4-pin CPU fan header 	
Power Requirement	12/19V DC connectivity via back-panel DC jack Optional: 1 x standard ATX PSU 4-pin 12 connector	
Environment	<ul style="list-style-type: none"> Operating Temperature: 0 °C to +60 °C Storage Temperature: -20°C to +70°C 	
Safety	<ul style="list-style-type: none"> CE FCC UL 	

Packing List

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