

Mini-ITX Form Factor
Intel Coffee lake Q370 / H310 chipset

Coming Soon

PH13FEI



Dual GLAN



M.2 (NGFF)
Support



DP / HDMI



All Solid Capacitor

Features

Support Intel Coffee lake processors

Dual channel DDR4 260-pin SO-DIMM

Intel® vPro business-grade technology support (with Q370 chipset)

Dual high speed Gigabit Ethernet connection

Two M.2 (NGFF) connector for expansion

Features 4 SATA3 (6Gbps)

Triple display connectivity by dual DP & HDMI

Embedded LVDS / eDP connectivity

Onboard 2/4 serial ports

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Sales Contact

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Coming Soon

Item	Spec	SKU-B	SKU-D			
Form Factor	Mini-ITX, 6.7" x 6.7" (170mm x 170mm)	v	v			
Processor	CPU Type: Intel Coffee lake Processor	v	v			
	CPU Core: Dual Core / Quad Core / Hexa core					
	Socket: Socket LGA1151					
	TDP: Support up to 65W CPU types					
Chipset	Chipset Series: Intel® Q370 Chipset	v	v			
	Chipset Series: Intel® H310 Chipset					
Memory	Memory Type: DDR4 @ 1.2V, 2666 MHz (Unbuffered Non-ECC)	2	2			
	Memory Channel: Dual Channel					
	Memory Capacity: Support total up to 32GB					
	ECC Support: No					
Audio Controller	Memory Socket: 260-pin So-DIMM socket	v	v			
Expansion Capability	Codec: HD audio codec, Realtek ALC662	v	v			
	PCIe 3.0 x 16 slot					
	M.2 (NGFF) M key 2242/2280 (PCIe / SATA) for storage					
External I/O	M.2 (NGFF) E key 2230 (PCIe / USB) for wireless	4 (USB 3.0)	4			
	HDMI out					
	DP-out					
	USB 3.1 gen 2 (10 Gb/s)					
	RJ-45					
	Line-out					
	Mic-in					
	Line-in					
	Internal I/O			Default LVDS Connector (40Pin) / colay eDP connector(40Pin)	1	1
				USB 3.0 ports		
Front audio Header (Mic / HP)						
DMIC Header						
Internal Speaker (support 2W)						
USB 2.0 ports						
Serial port header (one configurable for RS232/422/485)						
MiAPI Programmable header (support GPIO x 10, SMBUS x 1, UART x 1, Watchdog x 1) with API library supported for Windows OS						
SATA 3.0 6 Gb/s (PCH Q series Support RAID 0, 1)						
Front Panel header						
LVDS inverter power header						
Clear CMOS header						
Panel power Header (default 5V, option to 12V, 3.3V)						
CPU fan header						
SYS fan header						
Legacy I/O	Nuvoton NCT6116D	v	v			
Security	Intel® vPro™ Technology support	(v)	(v)			
	TPM security by Nuvoton NPCT750AAAYX (optional)					
LAN Support	Intel® I219 Gigabit (10/100/1000 Mb/s) LAN	v	v			
	Intel® I211 Gigabit (10/100/1000 Mb/s) LAN					
BIOS	Support for Advanced Configuration and Power Interface (ACPI) setting	v	v			
Instantly Available PC Technology	Suspend to RAM support	v	v			
Hardware Monitor Subsystem	Wake on PCI Express, LAN, front panel, serial, and USB ports	v	v			
	Hardware monitoring through the Nuvoton6116D legacy I/O controller, including					
	Remote thermal sensor					
Power Requirement	Speed control for 4-pin system fan header and 4-pin CPU fan header	v	v			
	ATX PWR Con (24 + 4 pin)					
Environment	Operating Temperature : 0°C to +60°C	v	v			
	Storage Temperature : -20°C to +80°C					
Safety	CE	v	v			
	FCC					
Operating System	Windows 10 64bit, Linux (support by request)					

Packing List

- PH13FEI Mainboard
- 50CM SATA Cable
- 45CM SATA Power Cable
- IO Shield
- Driver CD
- Quick Guide