

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

[www.mitac.com](http://www.mitac.com)





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		
Expansion Capability	Codec: HD audio codec, Realtek ALC662	v	v
	PCIe 3.0 x 16 slot	v	v
	M.2 (NGFF) M key 2242/2280 (PCIe / SATA) for storage		
M.2 (NGFF) E key 2230 (PCIe / USB) for wireless			
External I/O	HDMI out	1	1
	DP-out	2	1
	USB 3.1 gen 2 (10 Gb/s)	4 (USB 3.0)	4
	RJ-45	2	2
	Line-out	1	1
	Mic-in	1	1
	Line-in	1	1
	Default LVDS Connector (40Pin) / colay eDP connector(40Pin)	1	1
Internal I/O	USB 3.0 ports	2	2
	Front audio Header (Mic / HP)	1	1
	DMIC Header	1	1
	Internal Speaker (support 2W)	1	1
	USB 2.0 ports	2	2
	Serial port header (one configurable for RS232/422/485)	4	4
	MiAPI Programmable header (support GPIO x 10, SMBUS x 1, UART x 1, Watchdog x 1 ) with API library supported for Windows OS	1	1
	SATA 3.0 6 Gb/s (PCH Q series Support RAID 0, 1)	4	3
	Front Panel header	1	1
	LVDS inverter power header	1	1
	Clear CMOS header	1	1
	Panel power Header (default 5V, option to 12V, 3.3V)	1	1
	CPU fan header	1	1
	SYS fan header	1	1
Legacy I/O	Nuvoton NCT6116D	v	v
Security	Intel® vPro™ Technology support		v
	TPM security by Nuvoton NPCT750AAAYX (optional)	(v)	(v)
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		
	Hardware monitoring through the Nuvoton6116D legacy I/O controller, including Remote thermal sensor	v	v
	Speed control for 4-pin system fan header and 4-pin CPU fan header		
Power Requirement	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