



Micro-ATX Form Factor
Intel H310 / Q370 PCH

PH10FEU



Intel vPro



Dual LAN



Serial Port x 4



M.2 Support



3 Independent Displays

Features

Support 8th generation (Coffee Lake) Intel® Core™ i7, i5, i3 processors

Dual channel DDR4 with four connectors for MAX. 64GB memory

On board COM port header for RS232

Integrated Six-channel High Definition audio

Features dual high speed Gigabit Ethernet connection

Dual DP + DVI-D Triple display output

Support Type 2280, 2242 M.2 (NGFF)

Intel® vPro business-grade technology support

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Sales Contact

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| Item | Spec | |
|-----------------------------------|---|-------------|
| Form Factor | Micro-ATX 9.6" x 9.6" (244mm x 244mm) | |
| Processor | 8th generation Intel® Coffee Lake Core processor family with up to 95W TDP | |
| Main Memory | Support Dual channel DDR4 2666 MHz u-DIMMs | |
| | Support for up to 64GB of system memory | |
| Chipset | Intel® Platform Controller Hub (PCH) | H310 / Q370 |
| Integrated Graphics | Intel® HD Graphics (By CPU) | |
| External Graphics | External graphics support provided through the PCIe 3.0 x 16 bus connector | |
| Audio | Realtek ALC892-CG audio codec for 7.1 ch | |
| | Front panel microphone / headphone header | |
| Legacy I/O | Legacy I/O Controller (Nuvoton NCT6683D-T) that provides | |
| External I/O | USB 3.1 | 6 |
| | Display Port | 2 |
| | DVI-D | 1 |
| | J-45 (with integrated status LEDs) | 2 |
| | 6-stack Audio Jack (with S/PDIF) | 1 |
| | Serial Port header (RS232) | 4 |
| | USB 3.1 Ports | 2 |
| Internal I/O | USB 2.0 Ports | 2 |
| | Audio Header (Front Panel Mic-in / Hp-out) | 1 |
| | Desktop front panel header | 1 |
| | 2 x 8 pin TPM header | 1 |
| | Serial ATA (SATA) 6.0 Gb/s interfaces | 6 |
| | PCIe 3.0 x 16 (Blue) | 1 |
| | PCI-E Gen.3 x 8 slot (x 4 lanes) (Black) | 2 |
| Expansion Capability | M.2 Support Socket Type 2280, 2242 (PCI-e x 2) | 1 |
| | Hardware monitoring through the Nuvoton NCT6683D-T legacy I/O controller | |
| Hardware Monitor Subsystem | CPU fan header | 1 |
| | 4-pin system fan header | 3 |
| LAN Support | Intel® I219 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 | |
| Power Requirement | Wake on USB, PCI Express, LAN, serial, PS / 2, and front panel | |
| Environment | ATX 12V PWR Con (24 + 8 pin) | |
| | Operating Temperature: 0°C to +55 °C | |
| Safety | Storage Temperature: -20°C to +70°C | |
| | CE | |
| OS Support | FCC | |
| | Windows® 10 64bit, Linux by request | |

MITAC reserved the right for the specification changes

Ordering Information

| SKU NAME | CHIPSET | PCI-E x 8 | M.2 2242 / 2280 | SATA | USB 3.1 Gen2 Connector | USB 3.1 Gen1 Header | USB 2.0 Header |
|----------|---------|-----------|-----------------|------|------------------------|---------------------|----------------|
| SKU-B | H310 | 1 | 0 | 4 | 4 | 0 | 1 |
| SKU-D | Q370 | 2 | 1 | 6 | 6 | 2 | 2 |

Packing List

- PH10FEU Mainboard
- Driver CD
- Quick Guide