

219.00 EUR

incl. 19% VAT, plus [shipping](#)



- 2x Gigabit LAN !
- 12VDC power input !
- 2x m.2, 1x miniPCIe !
- 5 phase power design !

- Up to Intel® Coffee Lake-R 9th i9 35W & 8th i7 95W (6 cores) LGA processor
- Intel® H310/Q370 Chipset
- Intel® vPro technology support (Q370)
- 2 x DDR4 SO-DIMM up to 32GB
- 5 phase power design
- Support triple display for HDMI, DisplayPort and LVDS/eDP
- 1 x M.2 M 2280, 1 x M.2 E 2230, 1 x mPCIe Full size, 1 x PCIe X16
- 2 x Intel® Gigabit Ethernet
- DC-in 12V (Optional: 12~24V SKU)

PH14FEI (PH14FEI) Specifications

| | | | |
|-------------------|---------------|---|---|
| MECHANICAL | FORM FACTOR | Mini-ITX: 6.7" x 6.7" (170 mm x 170 mm) | |
| | PROCESSOR | 9th & 8th Gen Intel Coffee Lake LGA1151 Socket Processor, Core i7/i5/i3 6-core TDP Max. 95W, Core i9 8-core TDP Max 35W | |
| | CHIPSET | Intel® H310 / Intel® Q370 (Support RAID 0 / 1 & vPro) | |
| | SYSTEM MEMORY | DDR4 2666MHz / 2 x 260-pin SO-DIMM / Max. 32GB (Non-ECC) | |
| | GRAPHICS | Intel® HD Graphics | |
| | ETHERNET | Intel® I219-LM Giga LAN + Intel® I210-AT Giga LAN | |
| | SYSTEM | I/O CHIPSET | Nuvoton NCT6116D |
| | | AUDIO | Realtek® ALC662 |
| | | TPM | TPM Header |
| | | EXPANSION SLOT | *H310 only support M.2 SATA SSD / PCIe 3.0 X16 slot / M.2 2230 E key (PCIe, USB 2.0) / M.2 2242 / 2280 M key (PCIe, SATA) / Mini PCIe Full size (PCIe / USB / SATA) |
| BIOS | | AMI BIOS / 256 Mbit SPI | |
| H/W MONITOR | | Temperature Monitor / Voltage Monitor / Fan Monitor | |
| WATCHDOG TIMER | | 1~255 steps by software program | |
| SMART FAN CONTROL | | CPU Fan / System Fan | |
| 2nd DISPLAYPORT | | Up to 4K (4096 x 2304) @60 Hz | |
| GRAPHICS | | VGA | - |
| | DVI | - | |
| | HDMI | Up to 4K (4096 x 2160) @30 Hz | |
| | DISPLAYPORT | Up to 4K (4096 x 2304) @60 Hz | |
| | LVDS | Up to 1920 x 1200 @60 Hz | |
| | eDP (Option) | Up to 4K (4096 x 2304) @60 Hz | |
| | USB | 4 x USB 3.0 (H310) / 4 x USB 3.1 Gen 2 (Q370) | |
| | DISPLAY I/O | 1 x HDMI 1.4 / 2 x DisplayPort 1.2 | |
| | REAR I/O | AUDIO I/O | 1 x Mic-in / 1 x Line-out |
| | | LAN I/O | 2 x RJ-45 |
| SERIAL PORT | | - | |
| PS/2 PORT | | - | |
| OTHERS | | DC-in 12V(DIN 4-pin) | |

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|---------------------|-----------------------|--|
| | STORAGE | 2 x SATAIII |
| | USB | 5 x USB 2.0 (Q370) / 4 x USB 2.0 (H310) |
| | DISPLAY I/O | 1 x LVDS (*Optional eDP SKU available) / 1 x Backlight Connector |
| | AUDIO I/O | 1 x Stereo Speaker Header |
| | SERIAL PORT | 4 x RS232 (Two supports RS232 / 422 / 485 select by BIOS) |
| | PARALLEL PORT | - |
| INTERNAL CONNECTORS | GPIO | 1 x MiAPI Header (Programmable. Support 10-bit GPIO) |
| | FAN | 1 x 4-pin CPU Fan Header / 1 x 4-pin System Fan Header |
| | POWER | 1 x AT / ATX Mode Select Jumper / 1 x 4-pin ATX Power Connector |
| | OTHERS | 1 x CMOS Jumper / 1 x Front Audio Header (Mic-in & Line-out) / 1 x panel power select header / 1 x backlight power select header, / 1x buzzer header |
| POWER REQUIREMENT | POWER INPUT | *optional 12V-24V via DC to DC power board / DC-in 12V(DIN 4-pin)/ ATX 4-pin 12V |
| | OPERATING TEMPERATURE | 0 ~ 60°C (32 ~140°F) |
| ENVIRONMENTAL | STORAGE TEMPERATURE | -40 ~ 85°C (-40 ~185°F) |
| | OPERATING HUMIDITY | 10% ~ 95% R/H (Non-condensing) |
| | CERTIFICATION | CE / FCC Class B |
| OS | OS SUPPORT | Windows® 10 64-bit / Linux (support by request) |
| PACKING LIST | PACKAGE | 1 x Motherboard / 1 x 50 cm SATA Cable / 2 x I/O Bracket (Half and Full Height) / 1 x Driver CD / 1 x Quick Installation Guide |