



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



Special offer. Like PH12FEI-H310-19V, but only 1x LAN, without PCIe, without Serial/MAPI header.

- Intel® Coffee Lake Core i7/i5/i3 / Pentium / Celeron LGA1151 processors
- Intel H310 Chipset
- 2x DDR4 SO-DIMM, support up to 32GB
- Support triple display for HDMI, Display Port and LVDS
- 3x SATA III
- 1x Intel Gigabit Ethernet
- 6x USB 2.0, 4 x USB3.1 (Gen 2)
- DC-in 19V power input

Attention : M.2 slot is without function.

PH12FEI (PH12FEI) 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. 65W, Core i9 8-core TDP Max 35W |
| | CHIPSET | Intel® H310 / Intel® Q370 (Support RAID 0 / 1 / 5) |
| | SYSTEM MEMORY | DDR4 2666MHz / 2 x 260-pin SO-DIMM / Max. 32GB (Non-ECC) |
| SYSTEM | GRAPHICS | Intel® HD Graphics |
| | ETHERNET | Intel® Giga LAN |
| | AUDIO | Realtek® ALC662 |
| | I/O CHIPSET | Nuvoton NCT6116D |
| | TPM | Nuvoton NPCT750AAAYX TPM2.0 (Optional) |
| | EXPANSION SLOT | |
| | 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 |
| 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 |
| REAR I/O | USB | 4 x USB 3.1 Gen 2 / 4 x USB 3.0 (H310) |
| | DISPLAY I/O | 1 x HDMI 1.4 / 1 x DisplayPort 1.2 |
| | AUDIO I/O | 1 x Mic-in / 1 x Line-out |
| | LAN I/O | 1 x RJ-45 |
| | SERIAL PORT | - |
| | PS/2 PORT | - |
| | OTHERS | DC-in 19V (5.1 mm / ID, 7.4 mm / OD) |

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|---------------------|-----------------------|---|
| | STORAGE | 3 x SATAIII |
| | USB | 6 x USB 2.0 (Q370) / 5 x USB 2.0 (H310) |
| | DISPLAY I/O | 1 x LVDS (*Optional eDP SKU available) / 1 x Backlight Connector |
| | AUDIO I/O | 1 x Audio Header (Front Panel Mic-in & Line-out) |
| INTERNAL CONNECTORS | SERIAL PORT | - |
| | PARALLEL PORT | - |
| | GPIO | - |
| | FAN | 1 x 4-pin CPU Fan Header / 1 x 4-pin System Fan Header |
| | POWER | 1 x ATX Power Connector / 1 x AT / ATX Mode Select Jumper |
| | OTHERS | 1 x Chassis Intrusion / 1 x CMOS Jumper |
| POWER REQUIREMENT | POWER INPUT | DC-in 19V (5.1 mm / ID, 7.4 mm / OD) / ATX 2-pin 19V |
| | OPERATING TEMPERATURE | 0 ~ 60°C (32 ~140°F) |
| | STORAGE TEMPERATURE | -20 ~ 80°C (-4 ~176°F) |
| ENVIRONMENTAL | OPERATING HUMIDITY | 10% ~ 95% R/H (Non-condensing) |
| | CERTIFICATION | CE / FCC Class B |
| OS | OS SUPPORT | Windows® 10 64-bit / Linux (support by request) |
| | PACKAGE | 1 x Motherboard / 1 x 50 cm SATA Cable / 1 x 45 cm SATA Power Cable / 2 x I/O Bracket (Half and Full Height) / 1 x Quick Installation Guide / 1 x ATX 4-pin to DIN 4-pin Cable (12v SKU only) |
| PACKING LIST | | |