



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

- Intel H420E chipset !
- Intel vPro tech support !
- Support triple display !
- single 12V DC input !



- Up to Intel® Comet Lake 10th i9 35W & i5 95W LGA processor
- Intel® H420E Chipset
- 2 x DDR4 SO-DIMM up to 32GB
- 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
- 12V DC

MECHANICAL

FORM FACTOR

Mini-ITX: 6.7" x 6.7" (170 mm x 170 mm)

| | | |
|---------------------|---|--|
| SYSTEM | PROCESSOR | 10th Gen Intel® Comet Lake LGA1200 Socket Processor / 10core TDP Max 35W / 8ccore TDP 65W / (ATX support 6core 95W) |
| | CHIPSET | Intel® Q470 (Support RAID 0 / 1 / 5, VPro) / colay H420E |
| | SYSTEM MEMORY | DDR4 2933/2666/2400MHz / 2 x 260-pin SO-DIMM / Max. 64 GB (Non-ECC) |
| | GRAPHICS | Intel® HD Graphics |
| | ETHERNET | Intel® I219-LM Giga LAN + Intel® I210-AT Giga LAN |
| | AUDIO | Realtek® ALC662 / ALC888 |
| | I/O CHIPSET | Nuvoton NCT6126D(eSPI) |
| | TPM | Nuvoton NPCT750AAAYX TPM2.0 (Optional) |
| | EXPANSION SLOT | 1 x M.2 2230 E key(PCIe / USB) / PCIe 3.0 X16 slot / 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 | - | |
| 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 2.0 / 4 x USB 3.2 Gen 2 (Q470) | |
| DISPLAY I/O | 1 x HDMI 1.4 / 1 x DisplayPort 1.2 | |
| AUDIO I/O | 1 x Mic-in / 1 x Line-out / 1 x Line-in | |
| LAN I/O | 2 x RJ-45 | |
| SERIAL PORT | 2 x RS232 (one support RS422,/485) | |
| PS/2 PORT | - | |
| OTHERS | - | |
| STORAGE | 2 x SATAIII | |
| USB | 1 x USB 3.0 / 2 x USB 2.0 | |
| DISPLAY I/O | 1 x LVDS (*Optional eDP SKU available) / 1 x Backlight Connector | |
| AUDIO I/O | - | |
| SERIAL PORT | - | |
| 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 ATX Power Connector / 1 x AT / ATX Mode Select Jumper / ATX 12V Power Connector (24-pin + 4-pin) | |
| OTHERS | 1 x CMOS Jumper / 1 x Front Audio Header (Mic-in & Line-out) / 1 x panel power select header / 1x buzzer header / 1 x SPDIF | |

| | | |
|-------------------|-----------------------|--|
| POWER REQUIREMENT | POWER INPUT | ATX 24-pin + 4-pin / 12V DC (3pin terminal connector via cable by connecting to ATX 24-pin + 4-pin) |
| ENVIRONMENTAL | OPERATING TEMPERATURE | 0 ~ 60°C (32 ~140°F) |
| | 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 / 1 x Quick Installation Guide / 1 x I/O Bracket (Full Height) / 1x 3pin terminal connector female to 24p ATX + 4pin ATX + SATA power convert cable (12v sku) |