



289.95 EUR

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

- Intel Q470 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® Q470 Chipset
- Intel® vPro technology support
- 2 x DDR4 SO-DIMM up to 32GB
- 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
- 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<br>Socket Processor / 10core TDP Max 35W /<br>8ccore TDP 65W / (ATX support 6core 95W)                  |
|                     | CHIPSET        | Intel® Q470 (Support RAID 0 / 1 / 5, VPro) /<br>colay H420E  |
|                     | SYSTEM MEMORY  | DDR4 2933/2666/2400MHz / 2 x 260-pin<br>SO-DIMM / Max. 64 GB (Non-ECC)   |
|                     | GRAPHICS       | Intel® HD Graphics   |
|                     | ETHERNET       | Intel® I219-LM Giga LAN + Intel® I210-AT<br>Giga LAN   |
|                     | AUDIO          | Realtek® ALC662 / ALC888   |
|                     | I/O CHIPSET    | Nuvoton NCT6126D(eSPI)   |
|                     | TPM            | Nuvoton NPCT750AAAYX TPM2.0<br>(Optional)  |
|                     | EXPANSION SLOT | 1 x M.2 2230 E key(PCIe / USB) / PCIe 3.0<br>X16 slot / M.2 2242 / 2280 M key (PCIe,<br>SATA) / Mini PCIe Full size (PCIe / USB /<br>SATA) |
|                     | GRAPHICS       | BIOS   |
| H/W MONITOR         |                | Temperature Monitor / Voltage Monitor / Fan<br>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   |
| REAR I/O            | 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  |
| INTERNAL CONNECTORS | DISPLAY I/O    | 1 x LVDS (*Optional eDP SKU available) / 1<br>x Backlight Connector  |
|                     | AUDIO I/O      | -  |
|                     | SERIAL PORT    | -  |
|                     | PARALLEL PORT  | -  |
|                     | GPIO           | 1 x MiAPI Header (Programmable. Support<br>10-bit GPIO)  |
|                     | FAN            | 1 x 4-pin CPU Fan Header / 1 x 4-pin<br>System Fan Header  |
|                     | POWER          | 1 x ATX Power Connector / 1 x AT / ATX<br>Mode Select Jumper / ATX 12V Power<br>Connector (24-pin + 4-pin)                                 |
|                     | OTHERS         | 1 x CMOS Jumper / 1 x Front Audio Header<br>(Mic-in & Line-out) / 1 x panel power select<br>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) |