



249.95 EUR

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

- Intel Q470E Chipset !
- Intel vPro tech support !
- up to 32GB DDR4 SO-DIMM !
- Support triple display !



- Intel® Comet Lake 10th 65W(10cores) LGA processor
- Intel® Q470E Chipset
- Intel® vPro technology support (Q470E)
- 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 X4
- 2 x Intel® Gigabit Ethernet
- DC-in 12V

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 |
| | CHIPSET | Intel® Q470 (Support RAID 0 / 1 / 5, VPro) |
| | 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® I211-AT Giga LAN |
| | AUDIO | Realtek® ALC662 / ALC888 |
| | I/O CHIPSET | Nuvoton NCT6126D(eSPI) |
| | TPM | TPM Header / (support TPM module board NPCT750) |
| | EXPANSION SLOT | 1 x M.2 2230 E key(PCle / USB) / PCIe 3.0 X4 slot / M.2 2242 / 2280 M key (PCle, SATA) / Mini PCIe Full size (PCle / USB / SATA) |
| | BIOS | AMI BIOS / 128 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 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 | |
| LAN I/O | 2 x RJ-45 | |
| SERIAL PORT | - | |
| PS/2 PORT | - | |
| OTHERS | DC-in 12V(DIN 4-pin power cable) / DC-in 19V (5.1 mm / ID, 7.4 mm / OD) | |
| STORAGE | 2 x SATAIII / 1 x SATA power header | |
| USB | 6 x USB 2.0 | |
| DISPLAY I/O | 1 x LVDS (*Optional eDP SKU available) / 1 x Backlight Connector | |
| AUDIO I/O | - | |
| SERIAL PORT | 4 x RS232 (One supports RS232 / 422 / 485) | |
| 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 / 1x Digital MIC | |

| | | |
|-------------------|-----------------------|---|
| POWER REQUIREMENT | POWER INPUT | DC-in 19V (5.1 mm / ID, 7.4 mm / OD) / ATX 2-pin 19V / DC-in 12V(DIN 4-pin power cable)/ ATX 4-pin 12V |
| 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 / 2 x I/O Bracket (Half and Full Height) / 1 x Quick Installation Guide / 1 x SATA & SATA PWR Cable |