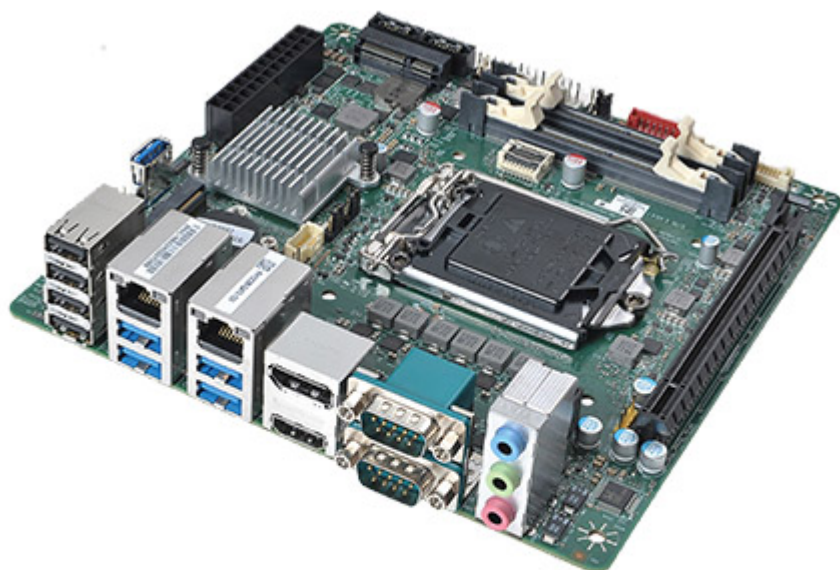




289.95 EUR

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(PCle / USB) / PCIe 3.0<br>X16 slot / M.2 2242 / 2280 M key (PCle,<br>SATA) / Mini PCIe Full size (PCle / USB /<br>SATA) |
|                     | BIOS              | AMI BIOS / 256 Mbit SPI                                                                                                                    |
| GRAPHICS            | 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                                                                                                                   |
|                     | eDP (Option)      | Up to 4K (4096 x 2304) @60 Hz                                                                                                              |
| REAR I/O            | 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<br>x Backlight Connector                                                                        |
| INTERNAL CONNECTORS | 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) |