



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

- Q470 !
- 3x LAN !

- Up to Intel® Comet Lake 10th Gen i9 125W (10 Cores) LGA1200 processor
- Intel Q470E Chipset
- Intel® vPro technology supported
- Support 1 x PCIe X16 slot, 1 x PCIe X8 slot, and 1 x PCI slot 1 x M.2 2280M-key (NVME), 1 x M.2 2230 E-key (CNVi)
- Support triple display for 1 x DisplayPort, 1 x HDMI and 1 x DVI
- Up to 6 x SATAIII (support RAID 0, 1, 5, 10)
- Up to 3 x Intel® Gigabit Ethernet
- Up to 6 x USB 3.2 Gen1, 4 x USB 2.0, 4 x COM ports
- ATX power input

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|---------------|---|
| FORM FACTOR | Micro-ATX: 9.6" x 9.6" (244 mm x 244 mm) |
| PROCESSOR | 10th Gen Intel® Comet Lake LGA1200 Socket Processor, Core i9/i7/i5/i3 up to 10-core TDP Max. 125W |
| CHIPSET | Intel® Q470E / W480E (Support RAID 0 / 1 / 5 / 10) DDR4 2933MHz |
| SYSTEM MEMORY | / Max. 64 GB (Non-ECC: H420E/Q470E, ECC: W480E) / 4 x 288-pin U-DIMM |
| GRAPHICS | Intel® HD Graphics |
| ETHERNET | Intel® I219-LM Giga LAN + 2 x Intel® I210-AT Giga LAN |
| AUDIO | Realtek® ALC662 / ALC888 |
| I/O CHIPSET | Nuvoton NCT6126D(eSPI) |
| TPM | TPM Header / (support optional TPM module board NPCT750) |

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| EXPANSION SLOT | <p>1. PCIe 3.0 X16 slot PCIe x16 support 3 options of PCIe switch: #1: 1 x PCIe X16, #2: 2 x PCIe X8, #3: 1 x PCIe X8 + 2 x PCIe X4</p> <p>2. PCIe 3.0 X8 slot (X4 Lanes) PCIe x4 lanes is switched with M.2 2242/2260/2280 slot</p> <p>3. PCI slot / 4. M.2 2242 / 2260 / 2280 M key (PCIe x4 ,SATA) M.2 2280 for H420E support SATA only</p> <p>5. M.2 2230 E key (PCIe x1, USB2.0, CNVi) / **5G card support is by BOM option. Please check with sales about the M.2 B Key 3052 5G card spec if you have any request</p> |
| 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 |
| VGA | - |
| DVI | Up to 1920 x 1200 @60 Hz |
| HDMI | Up to 4K (4096 x 2160) @30 Hz |
| DISPLAYPORT | Up to 4K (4096 x 2304) @60 Hz |
| LVDS | - |
| eDP (Option) | Up to 4K (4096 x 2304) @60 Hz |
| USB | 2 x USB 2.0 / 4 x USB 3.1 Gen1 (Q470E / W480E) / 3 x USB 3.1 Gen1 (H420E) |
| DISPLAY I/O | 1 x HDMI 1.4 / 1 x DisplayPort 1.2 / 1 x DVI-I |
| AUDIO I/O | 1 x 3-stack Audio Jack (Mic-in, Line-in, and Line-out) |
| LAN I/O | 3 x RJ-45 (1 x Optional) |
| SERIAL PORT | 1 x RS232 |
| PS/2 PORT | - |
| OTHERS | - |
| STORAGE | 6 x SATAIII (Q470E / W480E) / 4 x SATAIII (H420E) 2 x USB 3.1 |
| USB | / 2 x USB 2.0 |
| DISPLAY I/O | 1 x Backlight Connector / 1 x eDP |
| AUDIO I/O | - |
| SERIAL PORT | 2 x RS232 / 1 x RS232 / 422 / 485 |
| PS/2 PORT | - |
| PARALLEL PORT | - |
| 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 8-pin ATX Power Connector / 1 x 24-pin ATX Power Connector / 1 x AT / ATX Mode Select Jumper |
| POWER INPUT | ATX 8-pin + ATX 24-pin |
| OPERATING TEMPERATURE | 0 ~ 60°C (32 ~140°F) |
| STORAGE TEMPERATURE | -20 ~ 70°C (-4 ~158°F) |
| OPERATING HUMIDITY | 10% ~ 95% R/H (Non-condensing) |
| CERTIFICATION | CE / *Class B by request for customization SKU / FCC Class A |
| OS SUPPORT | Windows® 10 64-bit / Linux (support by request) |
| PACKAGE | 1 x Motherboard / 1 x 50 cm SATA Cable / 1 x I/O Bracket |