

AMIX-CML0

Intel® Q470E/H420E based Mini-ITX Motherboard supports
Intel® 10th Gen Core™ i9/i7/i5/i3 /Pentium/Celeron® Processors with
HDMI/DP/DVI-D/VGA/LVDS(eDP), 4 SATAIII, 4 COM, 12USB, Dual Intel® GbE LAN.

Key Features

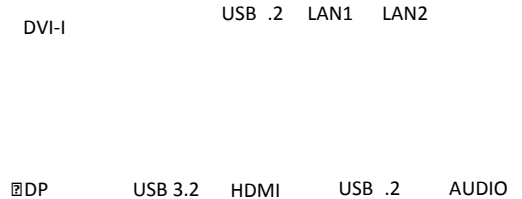
- Intel® 10th Generation Core™ i9/i7/i5/i3 /Pentium/Celeron® series processor (LGA1200 socket) with Q470E/H420E chipset
- Two 260-pin SO-DIMM up to 32GB DDR4 2933MHz SDRAM
- Multi-Display: HDMI/DP/DVI-D/VGA/LVDS (co-lay with eDP)
- Two Intel® Gigabit Ethernet ports
- 1 xPCIe (x16), 1 x Mini-PCIe, 2 x M-key 2280
- 4 x SATA III, 4 x COM, 10x USB 3.2 Gen. and 2 x USB 2.0
- Supports 4K/2K resolution display
- ATX Power support

Product Specification

| | |
|--------------------------|--|
| System Processor/Chipset | |
| Processor | Intel® 10th Generation Core™ i9/i7/i5/i3/Pentium/Celeron (Comet Lake-S) processor (LGA1200 socket); (max TDP 65W) |
| Chipset | Intel® Q470E or H420E |
| BIOS | AMI SPI Flash ROM |
| Memory | |
| Technology | DDR4 SDRAM 2933MHz |
| Max. capacity | Up to 32GB |
| Socket | 2 x 260-pin SO-DIMM |
| Display | |
| Graphics | Intel® UHD Graphics |
| Display interface | HDMI/DP/DVI-D/LVDS (eDP co-lay) |
| Multi-display | DP + HDMI + DVI-/ +LVDS DP + HDMI + DVI-/ +VGA DP + DP +DVI-D + LVDS DP + DP + VGA + LVDS |
| Resolution | DP: 4096 x 2304 @ 60Hz (max.) HDMI: 4096 x 2160 @ 60Hz (max.) LVDS: 1920 x 1200 @ 60Hz (max.) DVI-/: 1920 x 1200@60Hz VGA: 1920 x 1200@60H |
| Ethernet | |
| Interface | 10/100/1000 Mbps |
| Controller | Intel® I219LM + i211 GbE |
| Connector | 2 x RJ45 |
| Audio | |
| Interface | Line-out, Mic-in, Line-in |
| CODEC | Realtek ALC662 HD |
| Expansion Slot | |
| PCIe | 1 x PCIe (x16) |
| Mini-PCIe | 1 x Full-Size DMI/PCIe w/ SIM |
| M.2 | 1 x M.2 M-key 2280 NVMe SSD |
| SATA | |
| Max. data transfer rate | 6.0 Gb/s |
| Port | 4 x SATA III |
| I/O | |
| Audio | Line-out, Mic-in, Line-in (box-header) |
| USB | 10 x USB 3.2 Gen. 1(Rear I/O) (Q470E) 6 x USB 3.2 Gen. 1(Rear I/O) (H420E) 2 x USB 2.0 (box-header) |
| COM | 3 x RS-232 (box-header) 1 x RS-232/422/485 (box-header) |
| HDMI/VGA/DVI/DP | HDMI; DP; DVI-D; VGA; LVDS (eDP co-lay) |
| DIO | 4-in/4-out |
| Power Requirement | |
| Power connector | ATX (24+4P) |
| Power type | ATX |

| | |
|-----------------------|---|
| Power mode | ATX |
| Watchdog Timer | |
| Interval | Programmable 1 ~ 255 sec/min |
| Output | System reset |
| Environment | |
| Operating temperature | 0°C ~ 60°C (32°F ~ 140°F) standard -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional |
| Storage temperature | -20°C ~ 80°C (-4°F ~ 176°F) |
| Relative humidity | 0% ~ 95% (non-condensing) |
| Form Factor | |
| Dimensions (L x W) | Mini-ITX 170mm x 170mm (6.69" x 6.69") |

Rear I/O



Dimensions

Ordering Information

| Part Number | Description |
|----------------|---|
| AMIX-CML0-Q470 | Mini-ITX, Intel 10th Gen Q470E, HDMI/DP/DVI-D/ LVDS, 4SATA/ 4COM/12USB/2LAN, ATX20P |
| AMIX-CML0-H420 | Mini-ITX, Intel 10th Gen Q470E, HDMI/DP/DVI-D/ LVDS, 4SATA/ 4COM/8USB/2LAN, ATX20P |

Optional Accessories

| Part Number | Description |
|--------------|---------------------------|
| TBD | I/O Shied |
| TBD | Cooler w/ FAN for LGA1200 |
| VK00000700A9 | SATA cable |
| VK00002600A9 | SATA power cable |