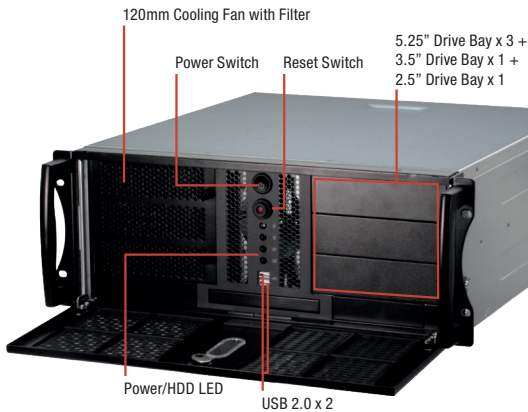


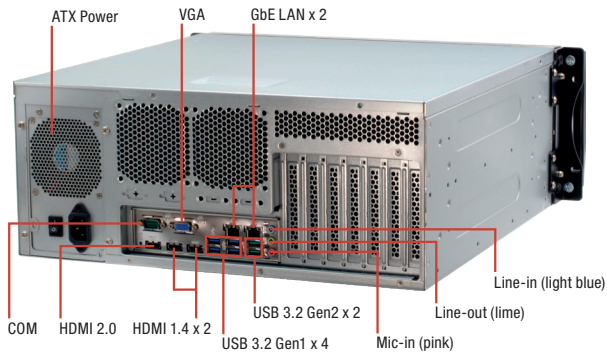
# ACS-4U01-Q470A

4U 17.5" Rackmount Chassis with 10th Generation Intel® Core™ Processor

Front View



Rear View



## Specifications

| System          |   |
|-----------------|---|
| Processor       | Intel® 10th Generation (Comet Lake-S) Core™ i9 /i7/ i5 /i3, Pentium 14nm LGA 1200 socket Processor, Max. 10 Core 80W  |
| Chipset         | Intel® Q470E Express Chipset  |
| Memory          | DIMM x 4, DDR4 (2933/2666MHz, max. 128GB)   |
| I/O Chipset     | IT5121E + F81216HD  |
| Ethernet        | Intel® PHY i219LM Giga LAN (supports Intel® AMT 12.0) x 1<br>Intel® i211AT Giga LAN x 1   |
| Audio           | Realtek® ALC897 6-Channel High Definition Audio CODEC   |
| TPM             | Nuvoton NPCT750AADYX TPM2.0 onboard (optional)  |
| Expansion Slots | PCIe 3.0[x16] Slot (16 lanes) (8 lanes when dual use PCIe[x16]) x 1, PCIe 3.0 [x16] (8 lanes) x 1, PCIe 3.0[x4] Slot x 1, PCIe 3.0[x4] Slot (2 lanes) x 1<br>M.2 2230 E-key (PCIe/CNV) x 1, M.2 2280/2242 M-key (PCIex4) x 1, M.2 3042/3052/2242 B-key (PCIe/USB/SATA) x 1, Micro SIM card Slot x 1 |
| BIOS            | 256Mbit Flash ROM x 1, AMI BIOS   |
| H/W Monitor     | Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis  |
| Storage         | SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10<br>M.2 2280 M-key 256G/512G/1TB (PCIex4) x 1  |

## Features

- 10th Generation Intel Core™ LGA1200 Processor
- Supports Power 10 Core 80W max.
- DDR4 2933/2666/2400 MHz, max. 128GB
- Three Independent Displays: HDMI x 3 (2.0 x 1, 1.4 x 2), VGA x 1
- Dual Intel® Gigabit Ethernet, LAN1 Supports iAMT 12.0
- Dual PCIe16 slots
- USB 3.2 Gen2 x 2, USB 3.2 Gen1 x 4, USB 2.0 x 2
- BIOS recovery function, convenient way to flash BIOS if needed
- TPM Onboard



|                   |   |
|-------------------|---|
| WatchDog Timer    | 1~255 steps by software program   |
| Smart Fan Control | CPU Fan/ Chassis Fan x 2  |
| Wake On LAN/ PXE  | Yes (WOL / PXE)   |
| Power State       | S3, S4, S5  |
| DIO               | 8-bit Digital I/O interface (In/Out programmable) x 1   |
| FAN               | CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 2  |
| Others            | Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1, 3-pin ME lock header x 1 |

### Graphics

|                        |  |
|------------------------|--|
| Graphics Chipset       | Intel® Graphics Media Accelerator                  |
| Graphics Multi Display | HDMI+HDMI+VGA, HDMI+HDMI+HDMI                      |
| VGA                    | Up to 1920 x 1200 @60Hz (via IT6516B)              |
| DVI                    | —  |
| HDMI                   | Up to 4096 x 2160 @ 60 / 30 Hz, with Digital Audio |
| Display Port           | —  |
| LVDS                   | —  |
| eDP                    | —  |
| Backlight Control      | —  |

### Environment & Power & ME

|                       |                            |
|-----------------------|----------------------------|
| Battery               | Lithium battery            |
| Operation Temperature | 32°F ~140°F (0°C ~ 60°C)   |
| Storage Temperature   | -40°F ~185°F (-40°C ~85°C) |
| Operation Humidity    | 0%~90%RH, non-condensing   |

### Rear Panel I/O Ports

|             |   |
|-------------|---|
| USB         | USB 3.2 Gen2 ports (10 Gbps) x 2, USB 3.2 Gen1 ports (5 Gbps) x 4 |
| Display I/O | VGA x 1, HDMI x 3 (2.0 x 1, 1.4 x 2)                              |
| Audio I/O   | Audio Jack x 3: Line-in, Mic-in, Line-out                         |
| LAN I/O     | LAN (RJ45) ports x 2  |
| Serial Port | DB-9 COM (supports RS-232/422/485, 5V/12V/RI) x 1                 |
| PS/2 Port   | —   |

### Front I/O Connectors

|        |                            |
|--------|----------------------------|
| USB    | USB 2.0 x 2                |
| Others | Power On/Off, System Reset |

### Power

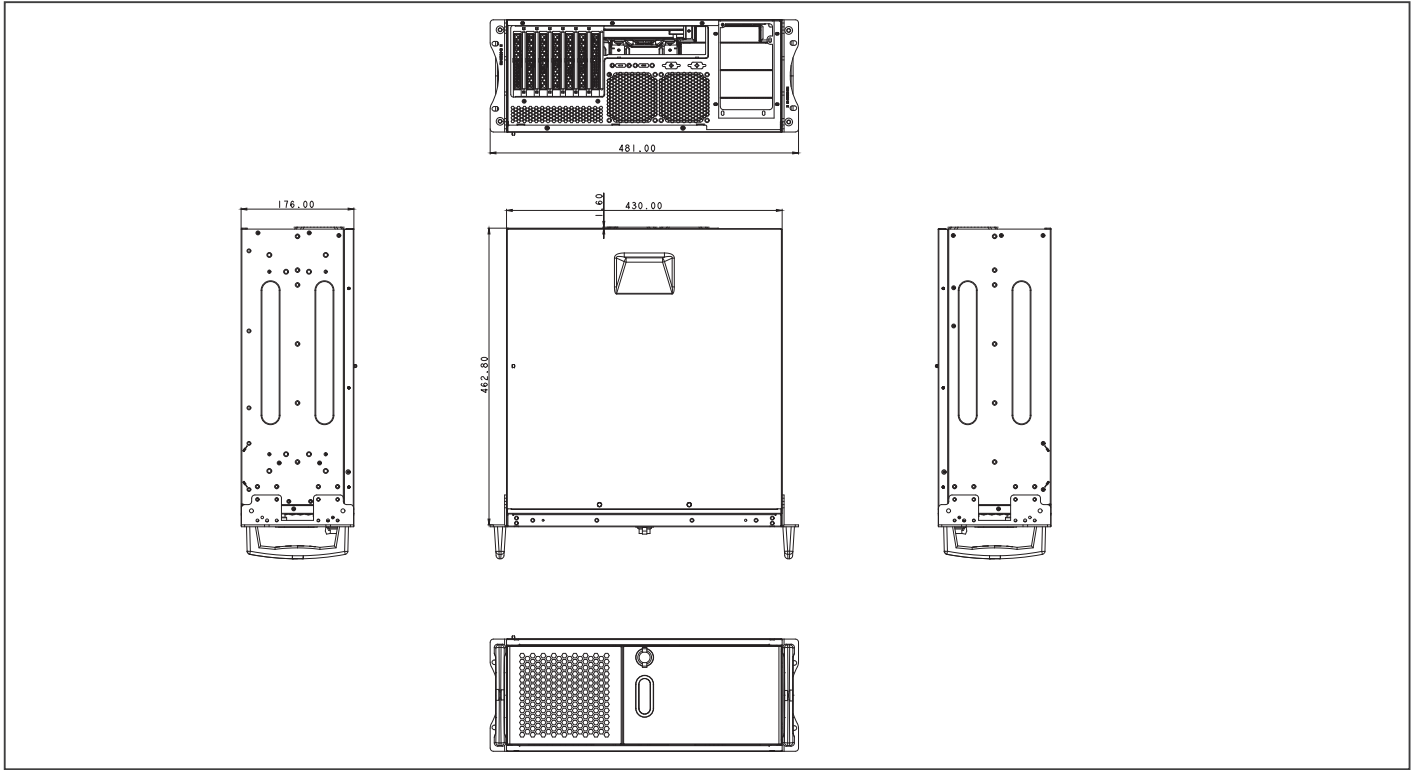
|                   |   |
|-------------------|---|
| Power Requirement | ATX power supply<br>Input:90~264V<br>Output:500W~900W |
|-------------------|---|

### Mechanical

|                        |  |
|------------------------|--|
| Color                  | Black + Silver                             |
| Dimensions (W x H x D) | 445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9" |
| Gross Weight           | TBC  |
| Net Weight             | TBC  |

## Dimension

Unit: mm



## Ordering Information

| Part Number          | CPU       | RAM        | Fan/Fanless | Display         | LVDS | Storage                 | LAN     | USB  | RS-232 | RS-232/422/485 | Expansion Slot   | Power | TPM | Temp.  |
|----------------------|-----------|------------|-------------|-----------------|------|-------------------------|---------|--|--------|----------------|--|-------|-----|--------|
| ACS-4U01-Q470A-10900 | i9-10900E | SODIMM x 4 | Fan         | VGA<br>HDMI x 3 | —    | SATA3 x 2<br>M.2(M-key) | GbE x 2 | USB2.0 x 4<br>USB3.2 Gen2 x 2<br>USB3.2 Gen1 x 4 | 1      | 1              | PCIe3.0[x16] x 1 or PCIe3.0[x8] x 2, PCIe3.0[x4] x 2, M.2(M-key) x 1, M.2(E-Key) x 1 | ATX   | Y   | 0~60°C |

## Packing List

- ACS-4U01-Q470A

## Optional Accessories

- **175921156B**  
CPU Cooler (2-Ball, Push-pin Type)
- **1759200172**  
CPU Cooler (2-Ball, Screw with Retention Plate)
- **1702031802**  
Power Cord (US & Taiwan Type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)
- **AP-FW9789182100**  
(TF)3.5" to 2.5" HDD bracket.Tragant.DeLock 18210
- **AP-OT9789343000**  
5.25" converter bracket, supports 1x 3.5" hard drive and 2 x 2.5" hard drive
- **1759232902**  
Rear Fan.80\*80\*25mm. 12VDC. PWM 4-pin, L=300mm. sunon. PF80251B1-Q120-S99