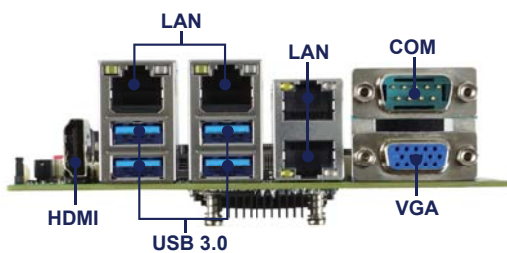


PM170DW

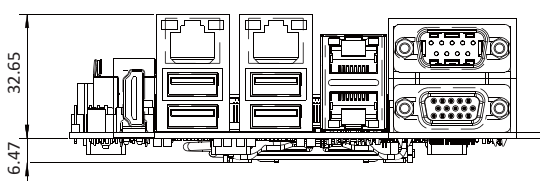
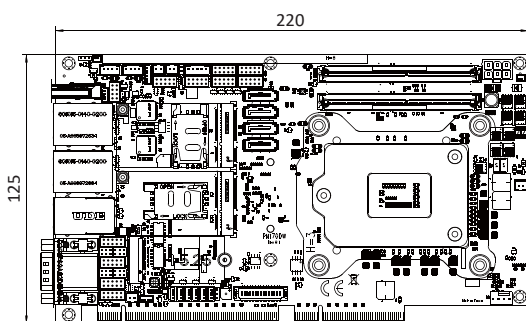
Full size CPU board supports 6th / 7th Gen Intel® Skylake-S / Kaby Lake-S CPU
VGA, HDMI, LVDS, 5 x Intel Gb Ethernet, 10 x USB, M.2
4 x COM, 16DI / 16DO, 2 x Mini PCIe, 1 x PCIe, 2 x SIM, SMBus



Features:

- 6th / 7th Gen Intel® Skylake-S / Kaby Lake-S, i7 / i5 / i3 / Celeron CPU
- Intel® Q170
- 2 x DDR4 1866 / 2133 MHz SODIMM, Max. 64GB
- Multiple Independent display: VGA & HDMI
- 5 x Intel GbE LAN, 4 x USB 3.0, 6 x USB 2.0, 16DI / 16DO
- 4 x COM, 2 x Mini PCIe, 1 x PCIe, 2 x SIM, 1 x M.2, SMBus
- TPM 2.0

Dimensions: (Unit:mm)



Specifications :

- CPU
6th / 7th Gen Intel® Skylake-S / Kaby Lake-S, i7 / i5 / i3 / Celeron CPU
- MB Chipset
Intel® Q170
- Graphics
Intel® HD Graphics, Support DirectX 12 & OpenGL 4.4 / 4.5
- System Memory
2 x DDR4 1866 / 2133 MHz SODIMM, Max. 64GB
- Storage
4 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
1 x mini card socket for mSATA
1 x M.2 B Key, Type 2242 (mSATA / PCIe)
- BIOS
AMI UEFI BIOS
- Display
1 x VGA, 1 x HDMI, Dual Channel, 48 bits LVDS (Option)
- Touch
(Option) USB touch screen controller
- TPM
TPM 2.0
- LAN
1 x Intel GbE I219LM (internal), 4 x Intel GbE (external)
- Audio (OEM)
High Definition Audio Specification, Support Line-out / Mic-in / Line-in
(Option) Two channel Class D Audio Amplifier
- Expansion Interface
1 x Full size Mini PCIe (mSATA / USB), 1 x Full size Mini PCIe (PCIe / USB)
1 x PCIe x16 / x 8 golden finger (PCIe x 16 + PCIe x 4 Signal)
1 x M.2 B Key, Type 2242 (mSATA / PCIe), 2 x SIM

Expansion Module

PCIe Card via riser Card 2 x USB 3.1, 2 x 10 GbE LAN, 4 x PoE, 4 x GbE

Converter Card CN066: Mini PCIe to M.2 E key 2230, WiFi 6 + BT

Mini Card GPS, 3G / 4G, Wi-Fi, 2 / 4 x LAN, 4 x COM, CANBus, SDI / AHD Video

By Cable Bluetooth, Digital I/O, 2 / 4 PoE, 4 x USB mini card

USB

4 x USB 3.0 (external), 6 x USB 2.0 (internal)

USB Expansion

USB to COM, Mini Card, M.2, Audio board

Serial IO

1 x RS232 / 422 / 485 (external), 3 x RS232 / 422 / 485 (internal)

*COM1~COM4 pin9 5V / 12V selectable by jumper

GPIO

Hardware digital Input & Output, 16 x DI / 16 x DO

SMBus

1 x SMBus

WDT

Hardware Watch Dog Timer, 0~255 sec programmable

PS2 KB / MS

PS2 KB / MS (internal)

Power Input

Wide Range +12~36V

Dimension

220 x 125 mm

Operation Temperature (100 % CPU Usage)

-20°C~70°C (Core i7 6700TE)

Operation Humidity

5~95%, non-condensing

Chassis (OEM I/O Expansion by request)

Box PC: APOLLO, APOLLO-RS

OS Support

7th Generation Intel® Core™ Processor family: Kaby Lake

Windows® 10 IOT (64bit)

Ubuntu 16.04.3 above, Fedora 26 above, CentOS 7.4 above

6th Generation Intel® Core™ Processor family: Skylake

Windows® 10 IOT (64bit) / Windows® 8.1 (64bit)

Windows® Embedded 8 Standard (64bit) / Windows® 7 (64bit)

Windows® Embedded Sta 7 (64bit)

Ubuntu 16.04.3 above, Fedora 26 above, CentOS 7.4 above