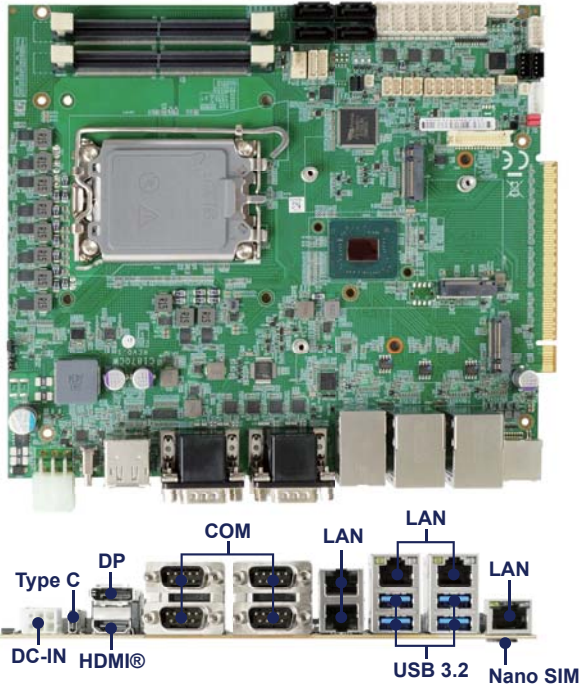


CI870CW

Embedded SBC supports Intel® Core™ Ultra Series 2 (Arrow Lake S) CPU

Introduction:

1 x HDMI®, 1 x DP, 1 x LVDS or eDP (BIOS), 1 x Type C, 5 x Intel 2.5Gb Ethernet, 3 x M.2, 1 x PCIe x 16 golden Finger, 8DI / 8DO, 4 x USB 3.2, 4 x USB 2.0, 10 x COM, 1 x Nano SIM, Audio

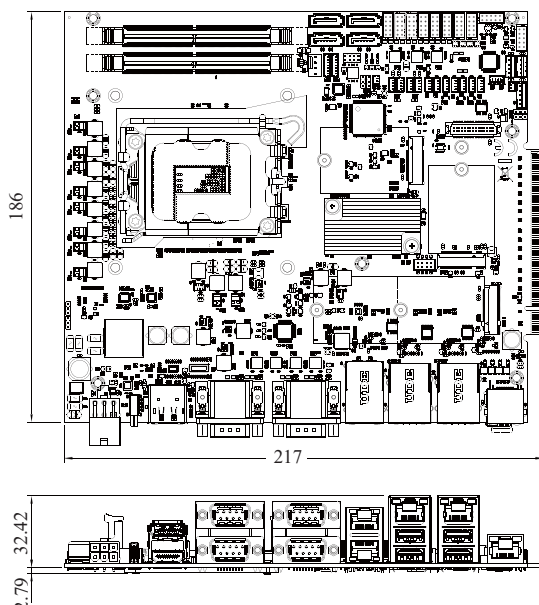


Features:

- Intel® Core™ Ultra Series 2 (Arrow Lake S) CPU
- 2 x DDR5 SODIMM, Max 96GB
- Multiple Independent display:
 - 1 x HDMI®, 1 x DP, 1 x LVDS or eDP (BIOS), 1 x Type C
- 5 x Intel 2.5 GbE LAN, 4 x USB 3.2 Gen 1, 4 x USB 2.0
- 1 x M.2 M Key, 2 x M.2 B Key, 1 x Nano SIM, 1 x PCIe x16
- 10 x COM, 8DI / 8DO, Audio
- TPM 2.0, SMBus, I2C, I2S



Dimensions: (Unit:mm)



- CPU**
Intel® Core™ Ultra Series 2 (Arrow Lake S) CPU
- MB Chipset**
Intel® Q870
- Graphics**
Intel® UHD Graphics
- System Memory**
2 x DDR5 SODIMM, Max 96GB
- Storage**
4 x SATA port
1 x M.2 M key Type 2280 / 3080 (OEM to 2242 / 3042), Support NVMe SSD
1 x M.2 B key Type 2242 / 3042, Support SATA SSD
1 x M.2 B key Type 2242 / 3042, Support NVMe SSD
- BIOS**
AMI UEFI BIOS
- Display**
1 x HDMI® ; 1 x DP ; 1 x Type C DP ALT Mode,
1 x LVDS or eDP (BIOS)
- TPM**
Hardware TPM 2.0 ; OEM Optional to Firmware TPM 2.0
- LAN**
5 x Intel 2.5GbE I226-IT (external)
- Audio**
Realtek ALC888s, Support Line-out / Mic-in / Line-in
Two channel Class D Audio Amplifier
- Expansion Interface**
1 x M.2 M key Type 3080 (PCIe x 4), Support NVMe, (OEM to Type 3042)
1 x M.2 B key Type 2242 / 3042 (USB 3.2 Gen 1x1 + SATA / USB 2.0) (OEM to Type 3052)
1 x M.2 B key Type 2242 / 3042 (PCIe x2 / USB 2.0)
1 x Nano SIM
1 x PCIe x 16 golden finger

Expansion Module

Converter Card:

CN064: M.2 B+M Keyto M.2 E Key 2230, WiFi 6 + BT

- USB**
4 x USB 3.2 Gen 1 (external), 1 x Type C, USB 3.2 (external)
4 x USB 2.0 (internal)
- Serial IO**
4 x RS232 / 422 / 485 (external) ;
6 x RS232 / 422 / 485 (internal)
- SMBus / I2C / I2S**
1 x SMBus ; 6 x I2C ; 2 x I2S
- GPIO**
Hardware digital Input & Output, 8 x DI / 8 x DO
- WDT**
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input**
Wide Range DC IN +12~36V (Typ: +12V/+24V)
- Dimension**
LEX form factor (186 x 217 mm) ; Weight: 460g
- Operation Temperature**
-20°C~+50°C (Ultra 7 265T)
-40°C (By OEM request)
- Operation Humidity**
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)**
Twister(L)
- OS Support**
Windows 10 / 11 (64bit)
Ubuntu 26.04 LTS, Kernel->7.0.0-14-generic

Specification are subject to change without prior notice. ODM / OEM is available.