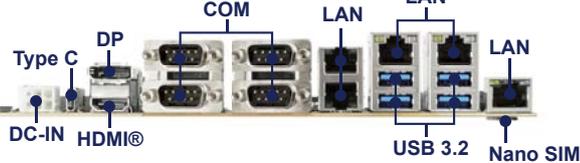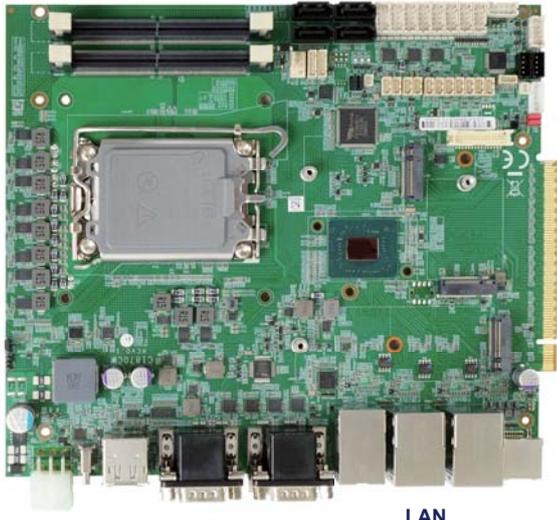# CI870CW

Embedded SBC supports Intel® Core™ Ultra processors (Arrow Lake-S)

■ Introduction:

1 x HDMI®, 1 x DP, 1 x eDP / LVDS, 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
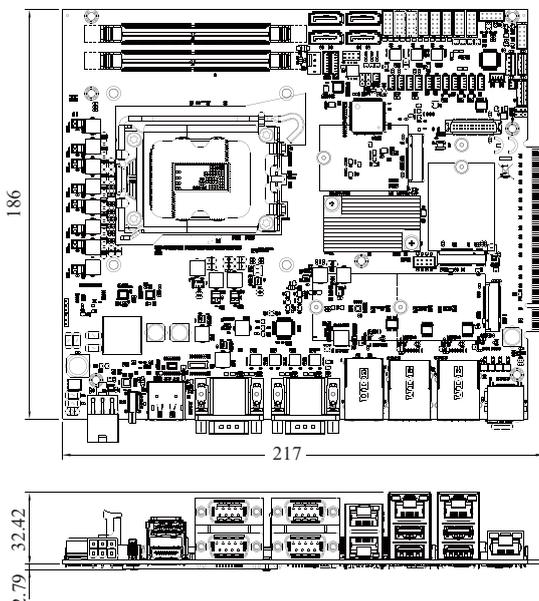

■ Features:

- Intel® Core™ Ultra 7/5 Series processors, Q870 Chipset
- 2 x DDR5 SODIMM, Max 96GB
- Multiple Independent display:
  1 x HDMI®, 1 x DP, 1 x eDP / LVDS, 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

CE FC

■ Dimensions: (Unit:mm)

■ CPU
Intel® Core™ Ultra 7/5 Series (Arrow Lake-S) processors

■ MB Chipset
Intel® Q870

■ Graphics
Intel® UHD Graphics

■ System Memory
2 x DDR5 SODIMM, Max 96GB

■ Storage
4 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
1 x M.2 M key Type 3042 / 3080 (PCIe x4), Support NVMe

■ BIOS
AMI UEFI BIOS

■ Display
1 x HDMI® ; 1 x DP ; 1 x Type C DP ALT Mode,
1 x LVDS / eDP (eDP for 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 3042 (USB 3.2 Gen 1x1 + SATA / USB 2.0) (OEM to Type 3052)
1 x M.2 B key Type 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 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~45°C (Ultra 7 265T)

■ Operation Humidity
5~95%, non-condensing

■ Chassis (OEM I/O Expansion by request)
Twister(L)

■ OS Support
Windows 10 / 11 (64bit)
Linux Ubuntu 22.04 / Kernel 5.15

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