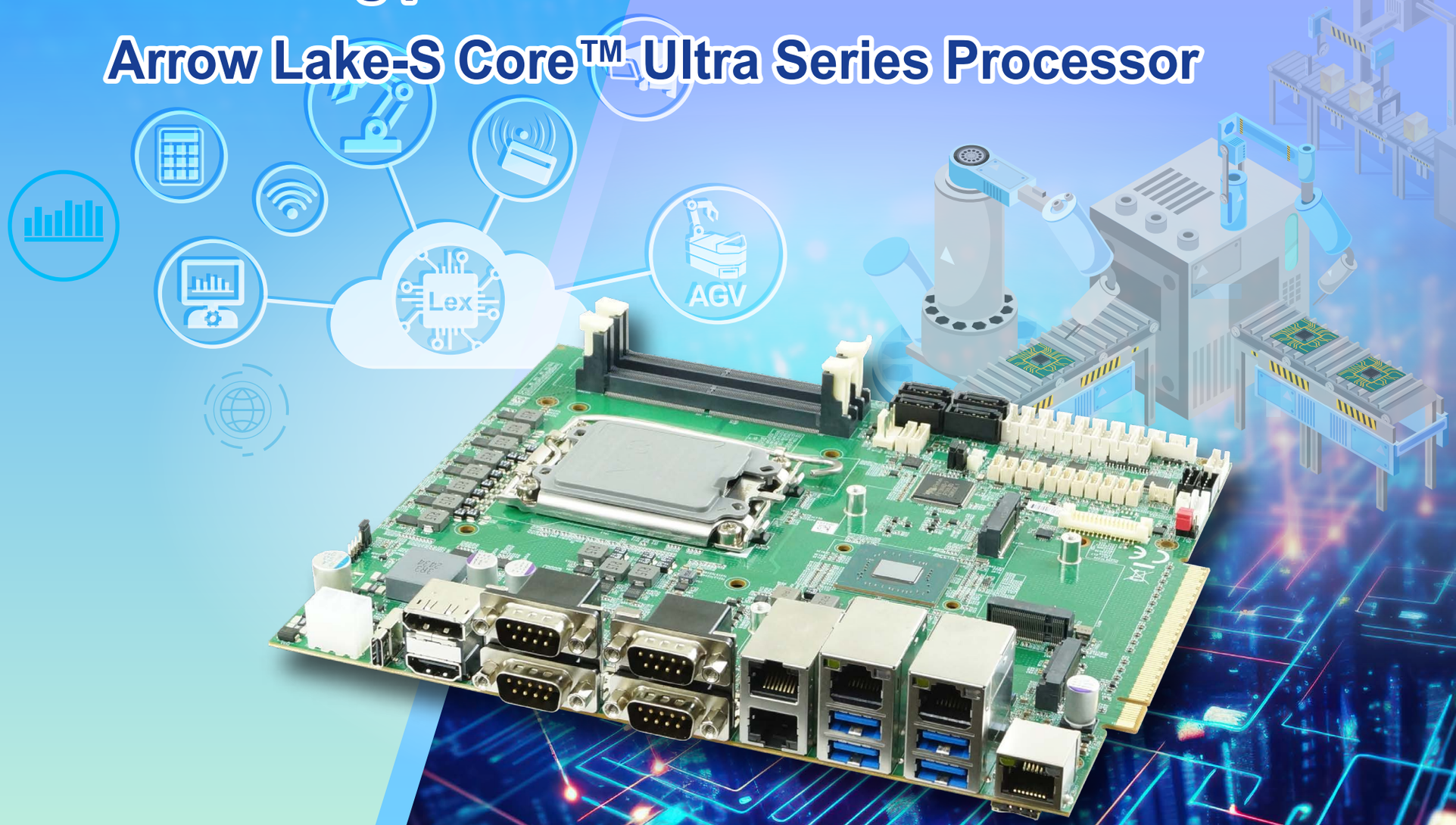
# CI870CW

## Maximizing performance SBC with 15th Gen. Intel ® Arrow Lake-S Core™ Ultra Series Processor

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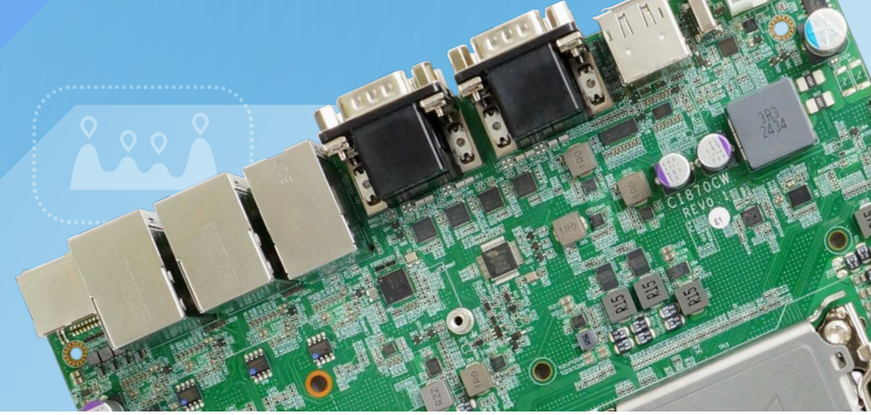
# CI870CW



## Maximizing performance SBC with 15th Gen. Intel ® Arrow Lake-S Core™ Ultra Series Processor

LEX SYSTEM launches the CI870CW, a high-performance embedded SBC powered by the latest Intel® Core™ Ultra Series 2 (15th Gen, Arrow Lake-S) processors. Designed for edge AI, industrial automation, and mission-critical applications, the CI870CW combines powerful computing with rich connectivity and expansion capabilities in a compact 186 x 217 mm form factor. It supports dual DDR5 SO-DIMM slots with up to 64GB of memory, multiple display outputs including HDMI®, DP, eDP/LVDS, and USB Type-C with DP Alt Mode, and integrates 5 x Intel® 2.5G LAN ports for high-speed networking. With 10 x COM ports, 4 x USB 3.2, 4 x USB 2.0, PCIe x16, M.2 M-Key, dual M.2 B-Key slots, and a Nano SIM slot, it enables seamless device integration, storage expansion, and 5G module support. Built with industrial-grade components, a wide-range 12V–36V DC input, and features like TPM 2.0, SMBus, I2C, I2S, and 8DI/8DO, the CI870CW ensures reliable operation in demanding environments such as manufacturing, transportation, military, and smart infrastructure.

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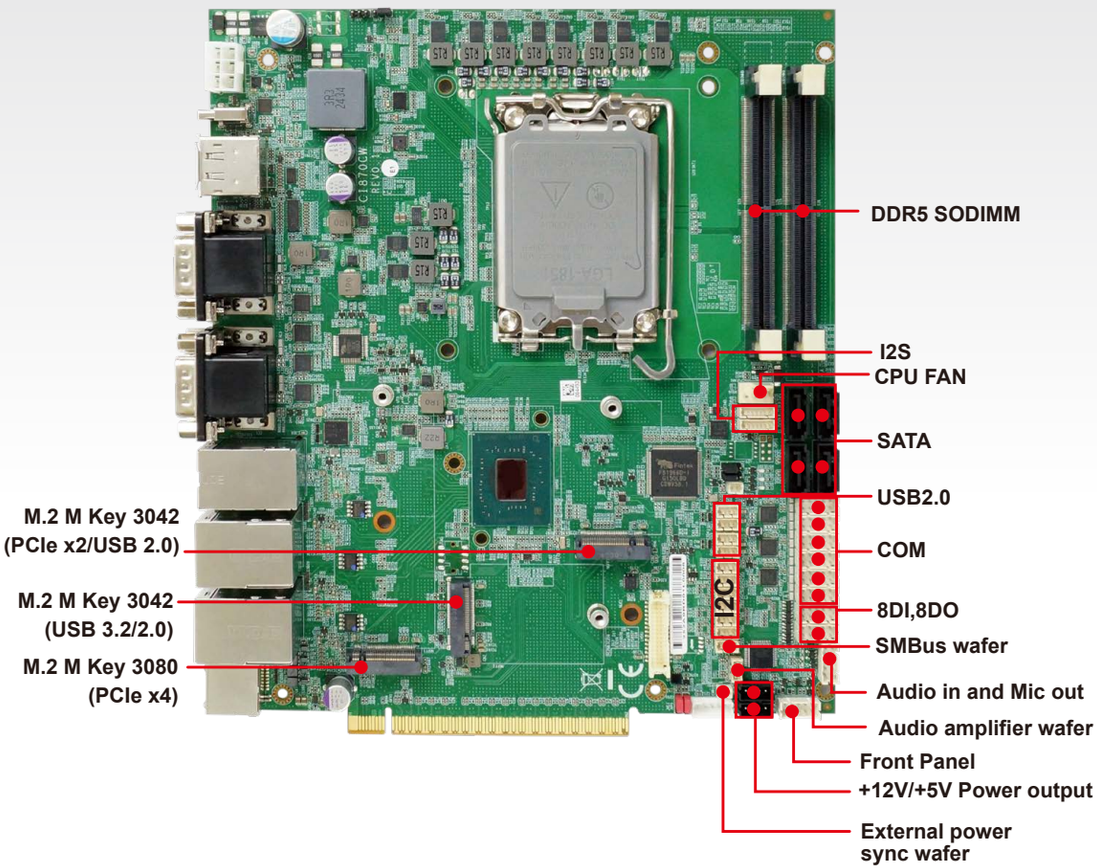
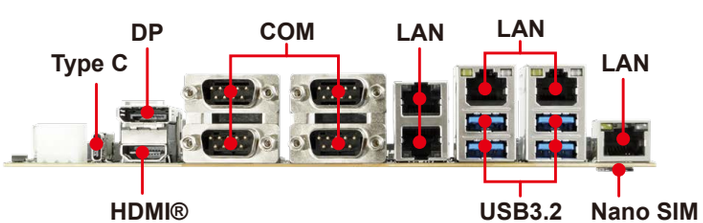
# Function Map




intel
Arrow Lake-S

186 x 217 mm

## CI870CW

### high performance solution for innovated embedded Applications

- Intel® Core™ Ultra 7/5 Series processors
- 2 x DDR5 SODIMM, Max 64GB
- 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
- wide-range 12V–36V DC input

Data Sheet

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## About LEX Comptech

Established in 1990, LEX Computech is an industrial computer manufacturer, provides LEX SYSTEM embedded solutions include designing and manufacturing of industrial motherboards, fanless embedded systems, rugged panel PC, in-vehicle fanless PC, network appliances, machine vision and automation controllers & IoT related solutions.

LEX SYSTEM's R&D team consisted with electronics, layout, system, mechanical, BIOS, firmware as well as software engineers, plus with experienced project management, in-house manufacturing and after sales service provides ODM /OEM customized products for various application-oriented projects.


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