

# SXC-ARL30

Intel® Meteor Lake/Arrow Lake Series CPU based Embedded Mini PC  
supports up to four displays with Intel® AI Boost NPU



## Features

- CPU: Intel® Meteor Lake/Arrow Lake-U/H Processor
- Memory: Dual Channel SO-DIMM DDR5 up to 96GB
- GPU: Integrated Intel® Graphics, Max Four Displays.
- NPU: Intel® AI Boost
- Ethernet: 10/100/1000/2500Mbps
- Storage: M.2\_N Slot for NVMe SSD, M.2\_SW Slot for SATA SSD/4G
- I/O Ports: 2xLAN, 2xCOM, 4xUSB3.2, 2xUSB2.0, 4xHDMI, Type-C
- Expansion: M.2\_E Slot for Wi-Fi(support CNVi, PCIe&USB), Nano SIM
- Power: 19V DC-IN/9-36V Phoenix optional



IoT Solutions  
Alliance  
Industrial Solution  
Builders Specialist

## Introduction

The SXC-ARL30 is a compact and powerful embedded mini PC featuring Intel® Meteor Lake/Arrow Lake Series CPUs with up to 14 cores, delivering exceptional performance for industrial and AI-driven applications. It supports up to four displays via HDMI and USB-C, powered by integrated Intel® Graphics or Intel® Arc™. With dual-channel DDR5 memory expandable to 96GB, Intel® AI Boost NPU, and compatibility with leading AI frameworks, it excels in edge computing tasks.

This device offers robust connectivity with dual LAN ports (up to 2.5Gbps), multiple USB and COM ports, and flexible storage via NVMe or SATA SSDs. Its wide temperature range, passive/active cooling, and rugged design ensure reliable operation in diverse environments. Perfect for AI, automation, and multimedia applications.



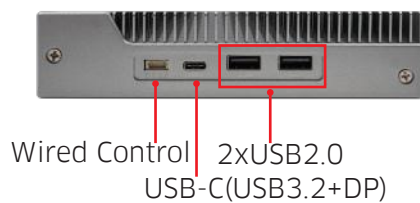
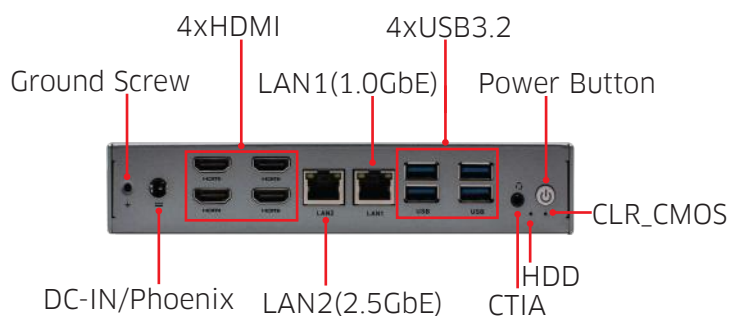
H/W Monitor



Watchdog



## I/O Interfaces



Phoenix Input  
Optional

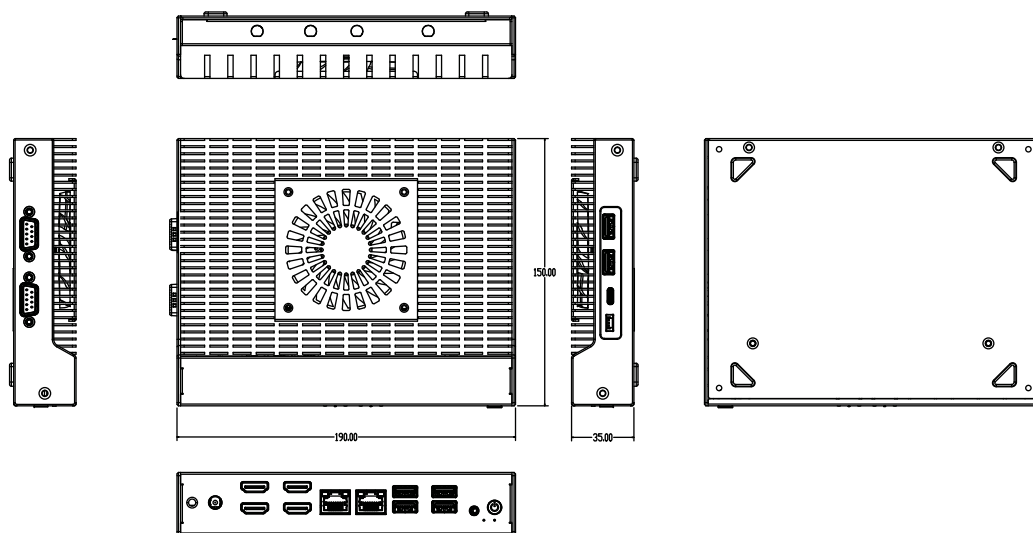
▪ FAN/FANLESS

## Technical Specifications

|                  |                            |                                                             |                      |
|------------------|----------------------------|-------------------------------------------------------------|----------------------|
| Processor        | Intel Core™ Ultra 5        | 125U                                                        | 125H                 |
|                  | Total Cores/Threads        | 12C/14T                                                     | 14C/18T              |
|                  | P-core Max Turbo Frequency | 4.30GHz                                                     | 4.50GHz              |
|                  | E-core Max Turbo Frequency | 3.60GHz                                                     | 3.60GHz              |
|                  | Intel® Smart Cache         | 12MB                                                        | 18MB                 |
|                  | Processor Base Power       | 15W                                                         | 28W                  |
|                  | GPU                        | Intel® Graphics                                             | Intel® Arc™ graphics |
|                  | NPU                        | Intel® AI Boost                                             | Intel® AI Boost      |
|                  | AI Software Frameworks     | Supported by NPU: OpenVINO™, WindowsML, DirectML, ONNX RT.  |                      |
|                  |                            | WebGPU 125U only.                                           |                      |
| Memory           | BIOS                       | AMI UEFI BIOS                                               |                      |
|                  | Type                       | Dual Channel SO-DIMM DDR5                                   |                      |
|                  | Max. Capacity              | 96GB                                                        |                      |
| Display          | Graphics                   | Integrated Graphics depends on the CPU model, see GPUs.     |                      |
|                  | Display via                | 4x HDMI2.0+USB-C(DP1.4)                                     |                      |
|                  | Max. Displays              | Four Screens for Mutiple Displays                           |                      |
|                  |                            | HDMI HPD LOCK Configuration supported                       |                      |
| Ethernet         | Max. Speed                 | 10/100/1000/2500Mbps                                        |                      |
|                  | Controller                 | LAN1: 1xIntel i219(1.0GbE), LAN2: 1xIntel i226(2.5GbE)      |                      |
|                  | Interface                  | 2x RJ45                                                     |                      |
|                  | Wake on LAN                | Yes                                                         |                      |
| Audio            | Audio Codec                | High Definition Audio Codec. Realtek ALC897                 |                      |
|                  | Interface                  | 1x CTIA 2 in 1 Audio Jack                                   |                      |
| Storage          | M.2_N                      | 1x M.2_2280 Slot for NVMe SSD                               |                      |
|                  | M.2_SW                     | 1x M.2_2280 Slot for SATA SSD/4G                            |                      |
| Expansion        | M.2_E                      | 1x M.2_2230 Slot for Wi-Fi&BT. Support CNVi, PCIe & USB.    |                      |
|                  | Nano SIM                   | 1x Nano SIM                                                 |                      |
| Other I/O        | COM                        | 2x COM(RS232 by default, RS485 optional)                    |                      |
|                  | USB2.0                     | 2                                                           |                      |
|                  | USB3.2                     | 4                                                           |                      |
|                  | USB-C                      | 1xUSB-C(USB3.2+DP1.4)                                       |                      |
|                  | Wired Control              | 1                                                           |                      |
|                  | TPM                        | Onboard, optional                                           |                      |
| Real Time Clock  | RTC                        | Support RTC set up, independently for each day of the week. |                      |
| Dimension        | Size                       | 190mm x 150mm x 35mm                                        |                      |
| Weight           | N.W.                       | TBD                                                         |                      |
| Power            | Standard Port              | 19V DC-IN.                                                  |                      |
|                  | Optional                   | 9-36V Phoenix_2PIN                                          |                      |
| Temperature      | Operating Temp.            | - 20°C to 60°C                                              |                      |
|                  | Storage Temp.              | - 40°C to 80°C                                              |                      |
| Cooling Method   |                            | Passive(125U)/Active(125H)                                  |                      |
| Operating System |                            | Windows 11 64bit, Linux 64bit                               |                      |

## Dimension (in mm)

## ▪ ACTIVE COOLING



## ▪ PASSIVE COOLING

