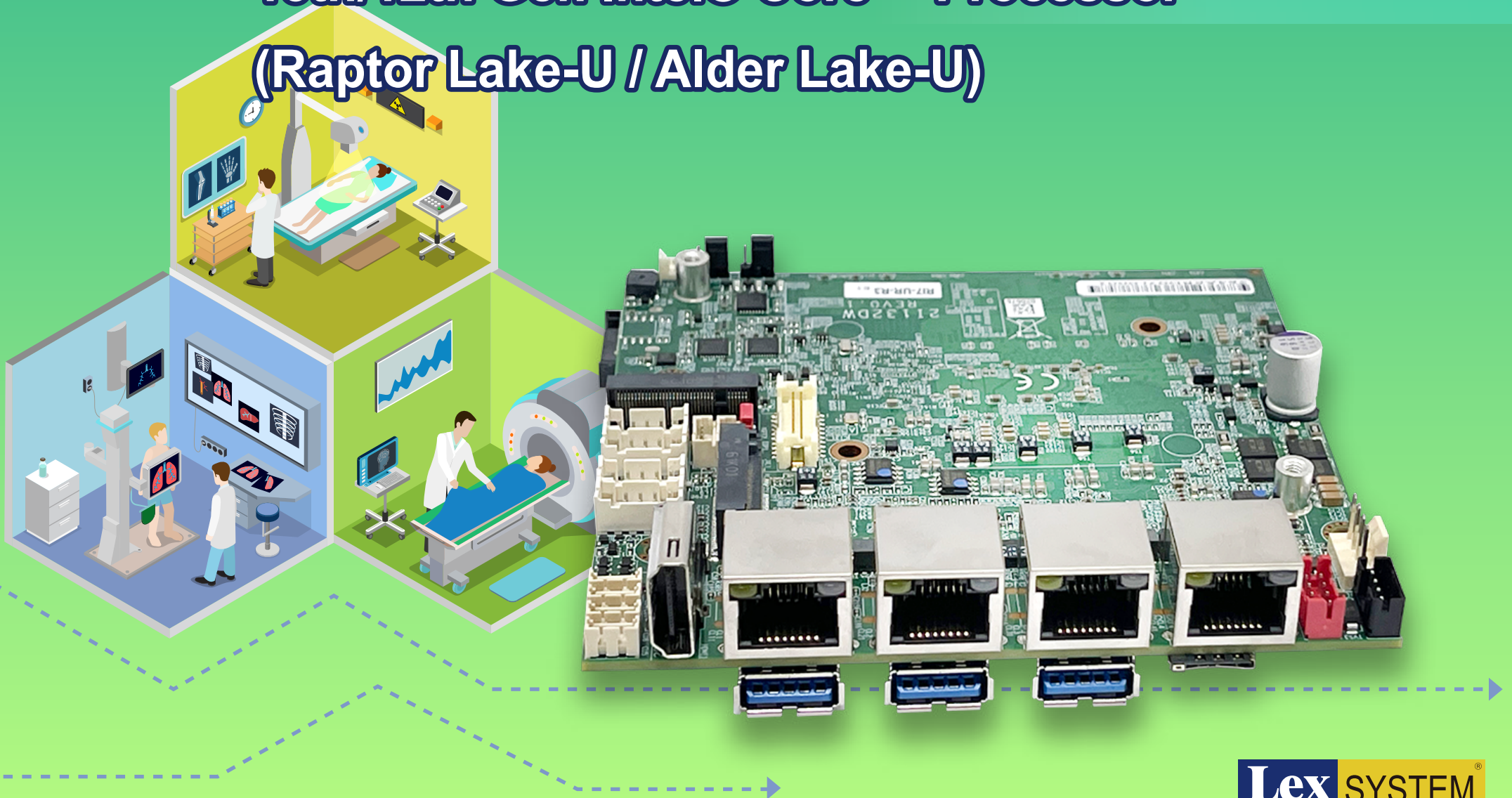
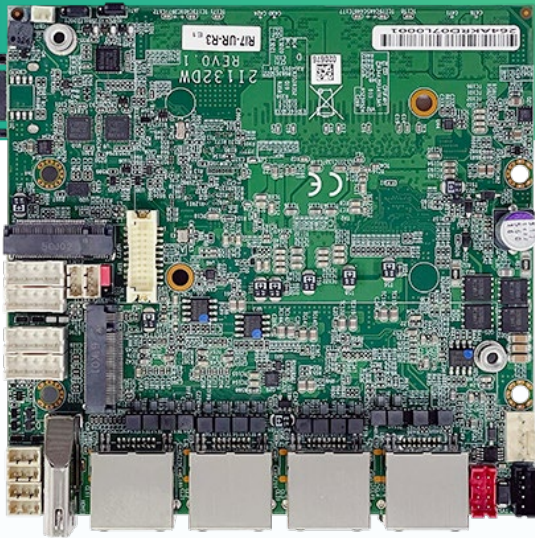


21132DW

**Advanced 2.5" Plus Edge AI SBC with
13th/12th Gen Intel® Core™ Processor
(Raptor Lake-U / Alder Lake-U)**





2I132DW

Advanced 2.5" Plus Edge AI SBC with 13th/12th Gen Intel® Core™ Processor (Raptor Lake-U / Alder Lake-U)

The LEX SYSTEM 2I132DW is a high-performance 2.5" Single Board Computer (SBC) powered by 13th Gen Intel® Raptor Lake-U and 12th Gen Alder Lake-U (Core™ i7/i5/i3/Celeron) processors, engineered specifically for demanding Edge AI and high-performance computing.

By integrating Intel's advanced graphics architecture with onboard 16GB/32GB LPDDR5 memory, the 2I132DW delivers exceptional graphics processing and computing efficiency. Despite its compact footprint, it offers rich, high-speed connectivity, including four 2.5 GbE LAN ports, HDMI®, eDP, three USB 3.2, four USB 2.0, two serial ports, and flexible expansion via M.2 B-Key and M.2 M-Key (supporting NVMe).

With support for a wide-range 9V to 36V DC input, this rugged, small-form-factor platform is the ideal choice for deploying artificial intelligence solutions in intelligent transportation, factory automation, and telemedicine.

Function Map

intel

Raptor Lake
Alder Lake

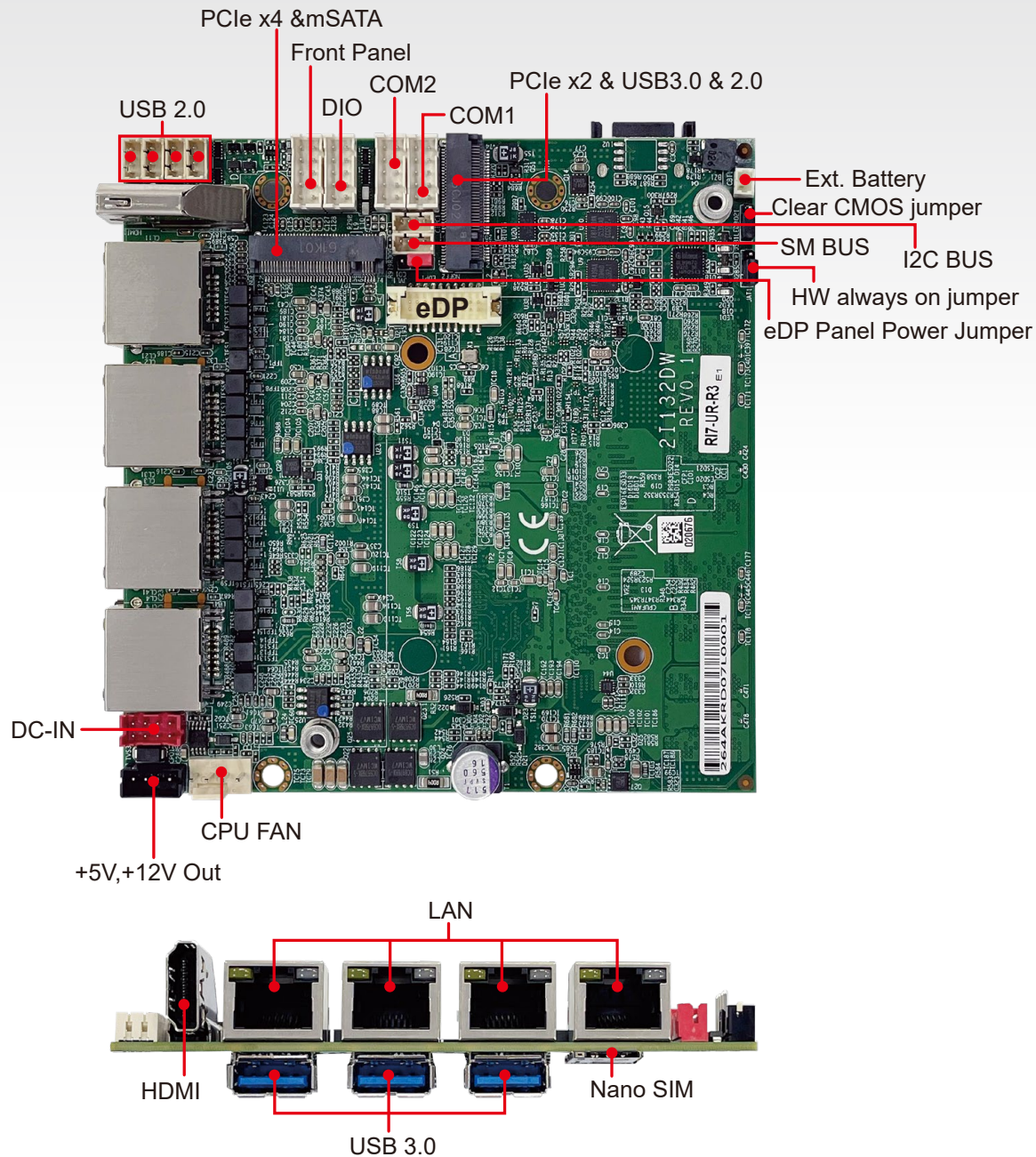
108 x 105
mm

2I132DW

Compact solution for Edge Gateway Appliance Features

- Intel® 13th Gen Raptor Lake-U i7 / i5 / i3 CPU
- Onboard LPDDR5, 16GB / 32GB
- Multiple Independent display: HDMI®, eDP
- 4 x Intel 2.5 GbE LAN, 3 x USB 3.0 (type A), 4 x USB 2.0
- 2 x COM, 4DI/4DO, 2 x M.2, 1 x Nano SIM
- TPM 2.0, Wide Range DC-IN 9~36V

[Data Sheet](#)



Lex SYSTEM[®]

www.lex.com.tw

Unlocking Infinite Versatility: Flexible Expansion for Your Edge AI Solutions

Engineered for ultimate adaptability, the motherboard supports a wide range of modular expansion combinations via CN073 / CN075 M.2 modules. Utilizing the SSL connector, users can seamlessly connect to various expansion boards (via PCIe or USB signals) to satisfy diverse application demands:



CN073



CN075

Advanced Multi-LAN:

Choose from 4 x GbE (CL210A), 4 x PoE (CL210P), 4 x 2.5GbE (CL226A), or 4 x Fiber LAN (CL210F).

Robust 4G/5G Wireless:

Deploy via the 4-Port M.2 B-Key + 4-Port Micro SIM module (CN063).

Multimedia Integration:

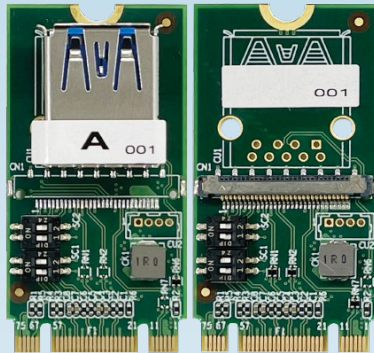
Support real-time video analytics via the HDMI® video capture card (ME225-S).

I/O Enrichment:

Expand versatile connectivity with 4 x USB 3.0 ports (CU006-S).

Tailor your system effortlessly to conquer demanding industrial environments and complex AI inferencing!

CN073



M.2 2242 B+M Key to PCIe/USB 3.0 Signal Adapter Board

- Supports PCIe or USB signal via SSL connector with Micro Coaxial Cable

CN075



M.2 2280 B+M Key to PCIe Signal Adapter Board

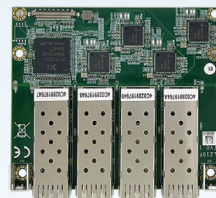
- Supports PCIe signal via SSL connector with Micro Coaxial Cable



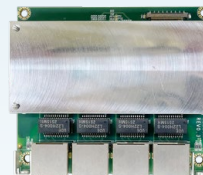
CL210A



CL210P



CL210F



CL226A



ME225A



CN063



CU006-S

Powered by 13th Gen Intel® Core™ processors and high-speed onboard LPDDR5 memory, LEX SYSTEM' s fanless DIN-Rail systems (SKY 2 2I132DW / ROCK 2I132DW) and the ultra-compact FOX 2I132DW integrate versatile wireless connectivity with rich industrial I/O. These platforms deliver high-performance Edge AI and advanced gateway solutions for truly seamless communication.



FOX - 2I132DW

Dimension: 132.5W x 112.45D x 48H mm

- Compact Fanless Embedded System



ROCK - 2I132DW

Dimension: 173W x 130D x 85H mm

- Rugged & Excellent heat-dissipated DIN-Rail /Desktop Fanless Embedded System



SKY 2 - 2I132DW

Dimension: 141W x 111.2D x 71.9H mm

- Excellent heat-dissipated DIN-Rail Fanless Embedded System

About LEX Computech

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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