



21140D

**Next-Gen Edge AI Powerhouse:
Meet LEX SYSTEM's Core™ Ultra
Series 2 Ultra-Compact SBC**



Lex SYSTEM®

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2I140D

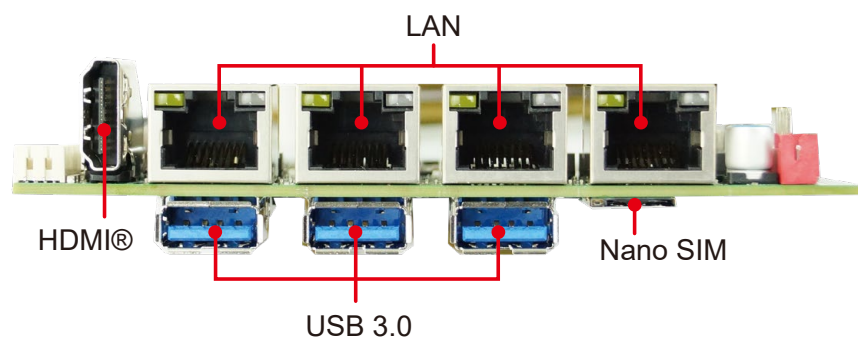
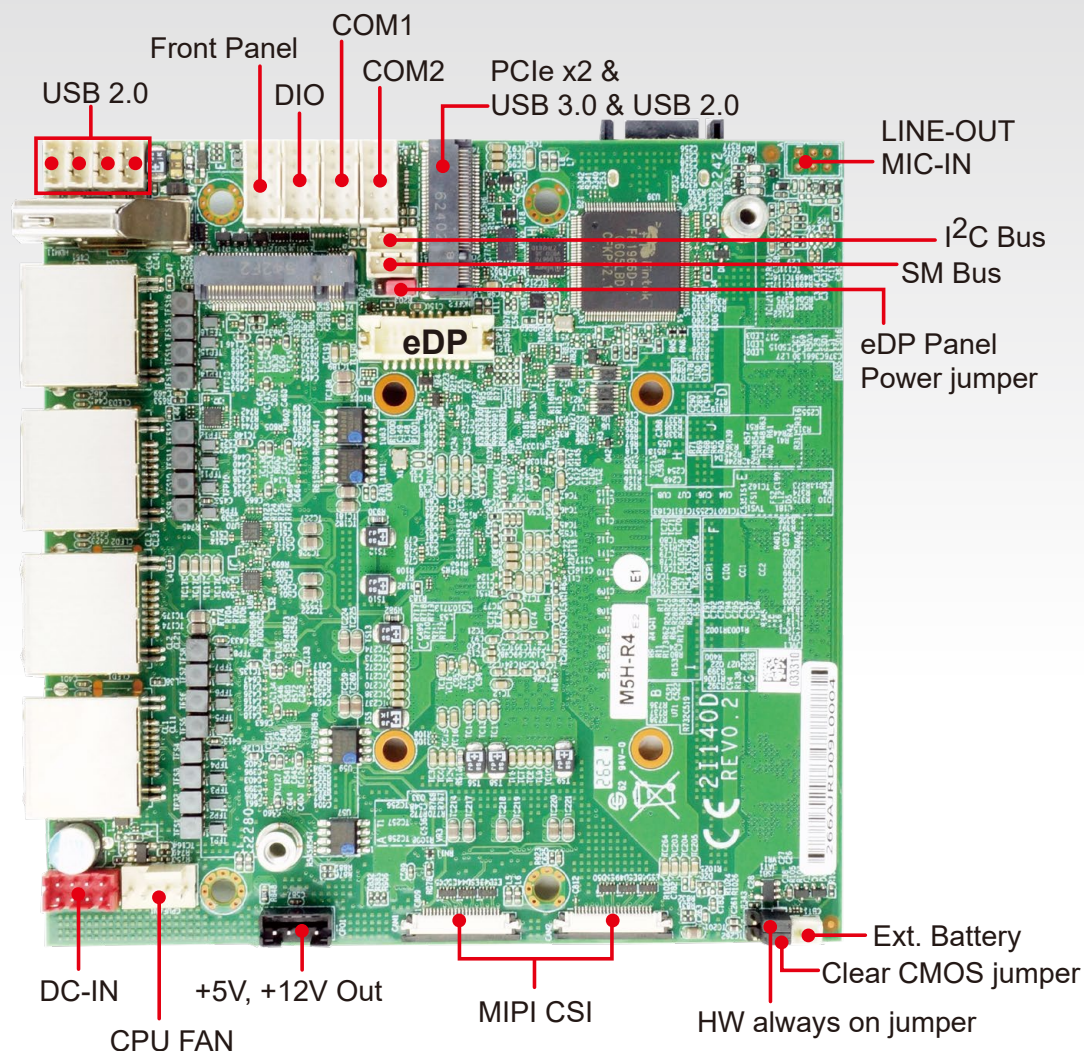
Next-Gen Edge AI Powerhouse: Meet LEX SYSTEM's Core™ Ultra Series 2 Ultra-Compact SBC

The LEX SYSTEM 2I140D is a groundbreaking 2.5-inch Plus (113 x 112 mm) ultra-compact SBC, powered by the latest Intel® Core™ Ultra Series 2 processors with an integrated NPU for next-level Edge AI acceleration. Its primary competitive edge lies in an extraordinary performance-to-size ratio. Featuring onboard 16GB/32GB LPDDR5 memory, the 2I140D not only maximizes space efficiency but also delivers superior shock and vibration resistance tailored for harsh, demanding environments.

Despite its miniature footprint, it compromises nothing on industrial-grade connectivity, packing 4 x Intel® 2.5G LAN ports, 2 x MIPI-CSI connectors, HDMI/eDP, SATA III, and M.2 slots for high-speed 5G/wireless expansion. Operating on a 12V DC input, the 2I140D stands as the premier choice for industrial automation, smart healthcare, and intelligent transportation—wherever space is limited, but high-speed AI processing is non-negotiable.



Function Map



21140D

Compact solution for Edge Gateway Appliance Features

- Intel® Core™ Ultra Series 2 processors
(Meteor Lake-U/H) (Arrow Lake-U/H)
- Onboard 16GB / 32GB LPDDR5
- Multiple Independent display: 1 x HDMI®, eDP
- 4 x Intel 2.5 GbE, 3 x USB 3.2 ; 4 x USB 2.0
- USB Audio wafer (OEM) ; 2 x MIPI-CSI
- 2 x M.2, 1 x Nano SIM, 2 x COM
- TPM 2.0, 4DI / 4DO

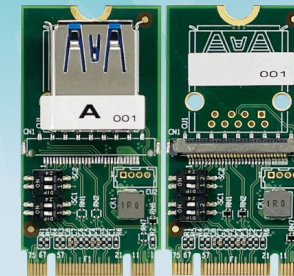
[Data Sheet](#)

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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:

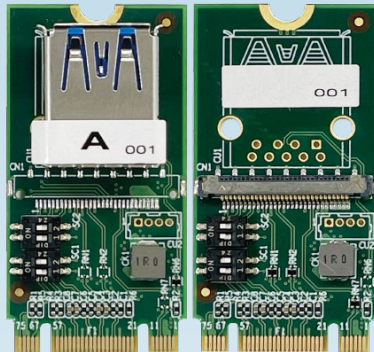
Support real-time video analytics via the HDMI® video capture card (ME225-S).

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

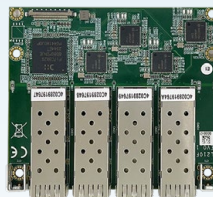
- Supports PCIe signal via SSL connector with Micro Coaxial Cable



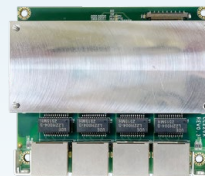
CL210A



CL210P



CL210F



CL226A



ME225A



CN063



CU006-S

Driven by Intel® Core™ Ultra 7/5 processors and high-speed onboard LPDDR5 memory, the compact, fanless ROCK 2I140D combines multi-network wireless expansion with extensive industrial I/O to deliver a high-performance Edge AI and advanced gateway solution for seamless industrial control.

ROCK - 2I140D

Dimension: 173W x 130D x 85H mm

- Compact & Excellent heat-dissipated 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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