

Have something need to help?

Compact size Intel® Atom™ (formerly Elkhart Lake) solution with onboard Hailo-8™ AI Accelerator SBC



HAILO
Empowering Intelligence



21640HL

Lex SYSTEM

www.lex.com.tw

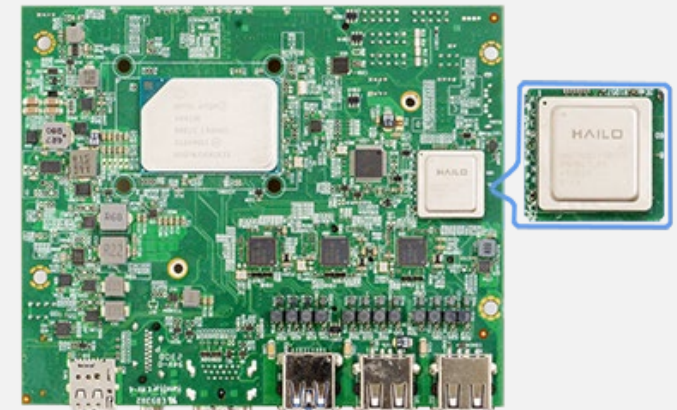




Compact size Intel® Atom™ (formerly Elkhart Lake) solution with onboard Hailo-8™ AI Accelerator SBC

LEX System 2.5" SBC : 2I640HL is with Intel Atom® x6000E Series and Celeron® (formerly Elkhart Lake) Series processors & onboard Hailo-8 AI Accelerator . 2I640HL integrated 3 x 2.5 GbE LAN, 6 x USB, 2 x COM Port , 2 x HDMI (or DP) display interface and 2 x M.2 expansion slot offers the ideal platform for graphics performance with integrated IoT features, real-time performance, manageability, and security.

In addition, via wide range 9-24V DC input and onboard Hailo-8™ AI acceleration, 2I640HL can easily be adopted to space limited AI applications. 2I640HL with onboard Hailo-8™ AI accelerator provides maximum power of Edge AI and helping customers speed up time to market and run complicated deep learning and machine vision applications with lower power consumption.



2I640HL



Function Map



NGFF2
M.2 Bkey 2242/3042
SATA / PCIe
USB2.0 OEM to USB3.0

NGFF1
M.2 Bkey 2242
PCIe x 2 / USB 2.0

SATA

USB2.0
Battery
Front Panel
COM1
COM2

4DI/4DO

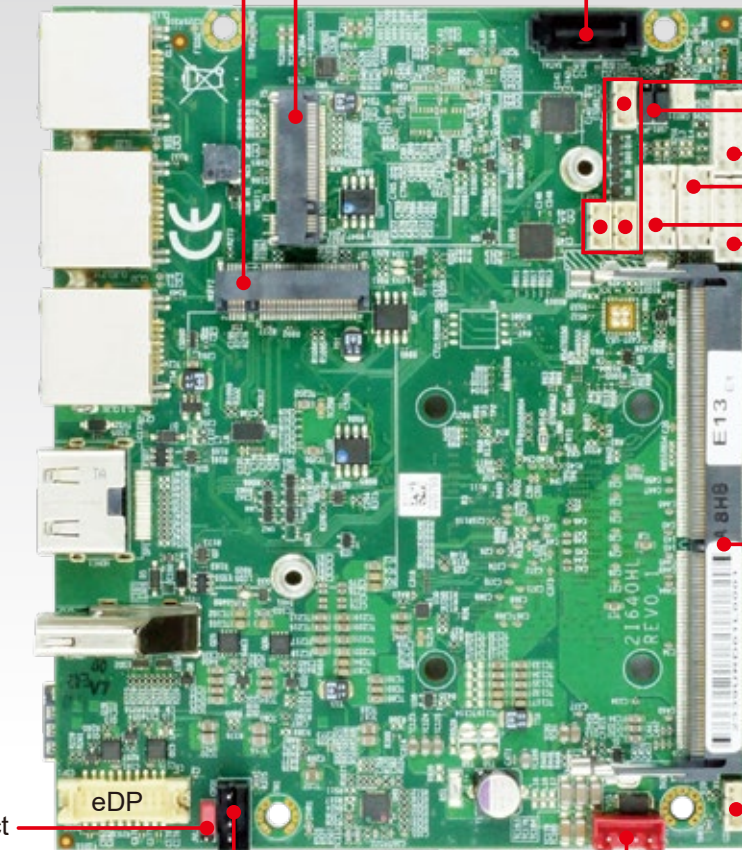
DDR4
SODIMM

SMBus

DC-IN +9V~+24V

eDP Panel
Power Select

+5V/+12V out

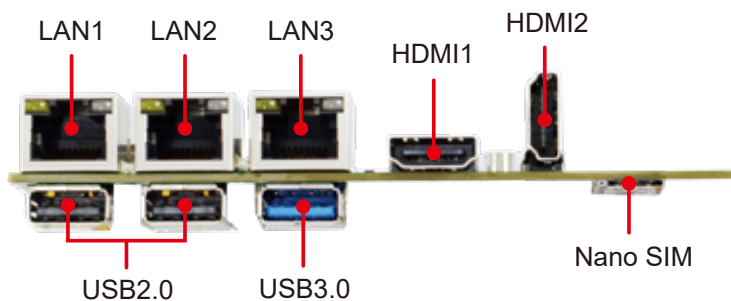


21640HL

**21640HL – ideal solution for
AloT & Edge AI Applications**

- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- Onboard Hailo-8™ AI Accelerator
- 1 x DDR4 SODIMM socket, Max. 32GB
- Independent display: 2 x HDMI (OEM to DP), 1 x eDP
- 3 x Intel 2.5 GbE LAN, 1 x USB 3.0, 5 x USB 2.0
- 2 x COM, 4DI / 4DO, 2 x M.2, 1 x Nano SIM
- TPM 2.0 (Firmware), SMBus
- Wide temperature support of -40°C ~ 70°C

[Data Sheet](#)



Lex SYSTEM®

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NET-III 2I640HL

Dimension: 135W x 110D x 40H mm

- Slim & Ultra Compact DIN-Rail System
- Ideal solution for space-limited environment





HAILO
Empowering Intelligence



SKY 2 - 21640HL

Dimension: 145W x 111.2D x 71.9H mm

- Compact & Excellent DIN-Rail System
- Robust & Powerful Fanless Embedded solution

About LEX Comptech

Established in 1990, LEX Comptech 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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