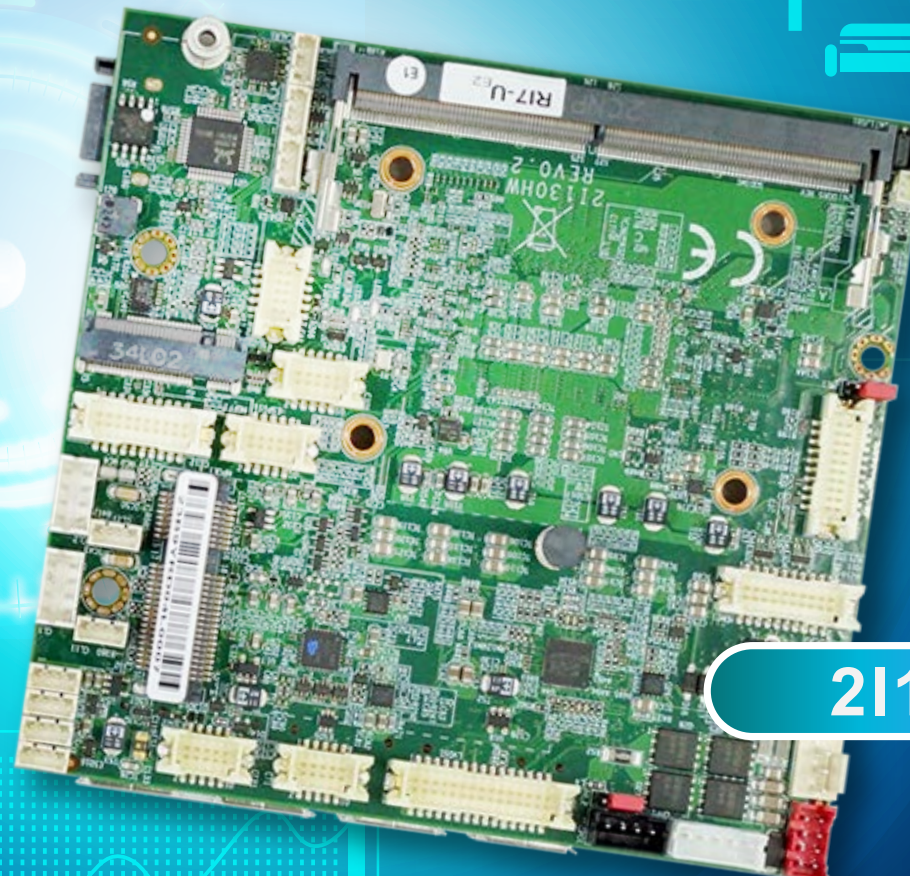# Ultra compact size and Flexible IO expansion solution with Intel®13th Gen. Raptor Lake i7/i5/i3/Pentium Processor

2I130HW

Ultra compact size and Flexible IO expansion solution with Intel®13th Gen. Raptor Lake i7/i5/i3/Pentium Processor

LEX Computech released the next generation 2.5 plus" (102 x 108 mm) embedded board 2I130HW with Intel 13th Gen. Raptor Lake-U i7/i5/i3/Pentium processors. Running with Intel Iris Xe Graphics (i7, i5), Intel UHD Graphics (i3, Celeron ,2I130HW provide high-performance and full – features with integrated 2 x 2.5GbE LAN, 8 x USB, 2 x COM Port, HD Audio, HDMI,LVDS and eDP display interface, Touch Screen controller and 1 x M.2, 1 x Mini Card expansion slot offers the ideal platform for graphics performance with enhance AIoT features, real-time performance, Edge AI computing ,manageability, and security.

2I130HW's all wafer IO design delivers high flexibility toward expanded functions & and also provides user hassle-free solution of integrating the SBC board within various mechanical enclosures. The compact size feature makes 2I130HW well suited for many space-limited and thermally constrained embedded applications, such as In-Vehicle Infotainment, Intelligent Control, Factory Automation Industry 4.0,AIoT and Edge Computing applications.
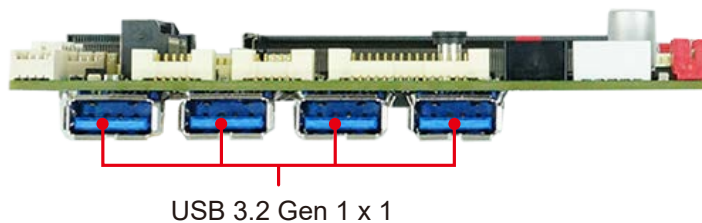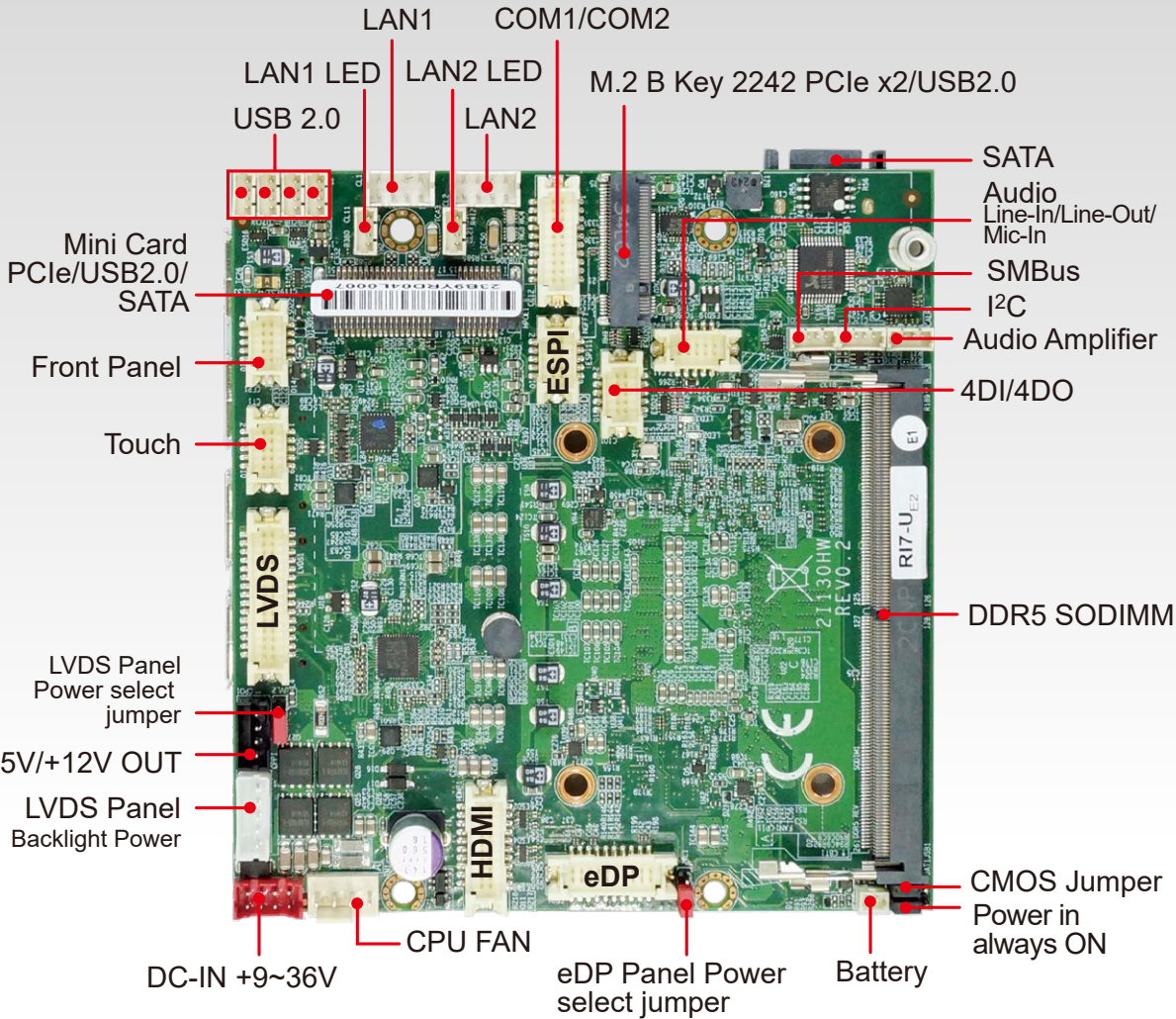
Function Map

USB 2.0

LAN1 LED   LAN2 LED

LAN1   COM1/COM2   LAN2

M.2 B Key 2242 PCIe x2/USB2.0

SATA

Audio
Line-In/Line-Out/
Mic-In

SMBus

I²C

Audio Amplifier

4DI/4DO

Mini Card
PCIe/USB2.0/
SATA

Front Panel

Touch

LVDS

ESPI

LVDS Panel
Power select
jumper

+5V/+12V OUT

LVDS Panel
Backlight Power

HDMI

eDP

DDR5 SODIMM

CMOS Jumper

Power in
always ON

Battery

DC-IN +9~36V

CPU FAN

eDP Panel Power
select jumper

USB 3.2 Gen 1 x 1

intel
Raptor Lake

108 x 102 mm

2I130HW

2I130HW – ideal solution for space-limited embedded Applications

- Intel® 13th Gen Raptor Lake-U i7 / i5 / i3, Pentium CPU
- 1 x DDR5 SODIMM (Max. 32GB)
- Multiple Independent display: HDMI, eDP, LVDS
- 2 x Intel 2.5 GbE LAN, 4 x USB 3.2 Gen 1 x 1 (type A), 4 x USB 2.0
- 2 x COM, 4DI / 4DO, HD Audio
- 1 x Mini PCIe, 1 x M.2 B Key
- TPM 2.0
- Wide Range DC IN +9~36V
- Wide temperature support of -20°C ~ 70°C

Data Sheet

Lex SYSTEM®

www.lex.com.tw

Waterproof solution with Intel® 13th Gen Raptor Lake-U Platform

LEX SYSTEM IP67 Embedded Systems with Intel® 13th Gen Raptor Lake-U

platform offer the IP67 rating protection with waterproof and dust-resilience

capability, 9V to 36V DC input, battery charger function and

multiple M12 waterproof connectors in slim, fanless & rugged design.

IP67
Waterproof

DIO   ⊷   COM   LAN4   LAN3   LAN2   LAN1   DC-IN

SHARK IP67 Box PC

Dimension: 250W x 168D x 40H

- Compact size Fanless Solution
- IP67 waterproof solution

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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