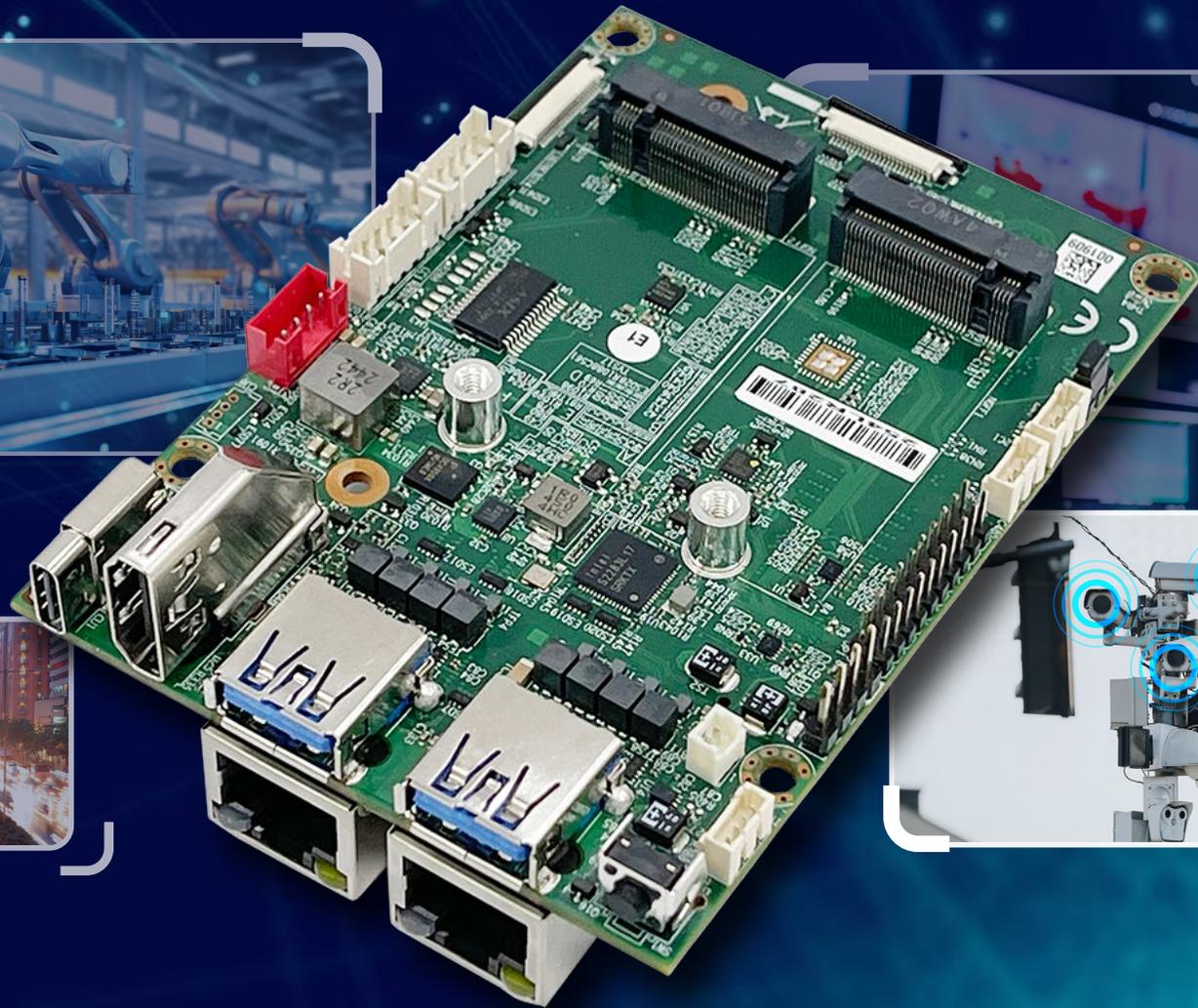# 2NOR03

Edge AI Solution with NVIDIA Jetson Orin NX / Nano (Super) platform
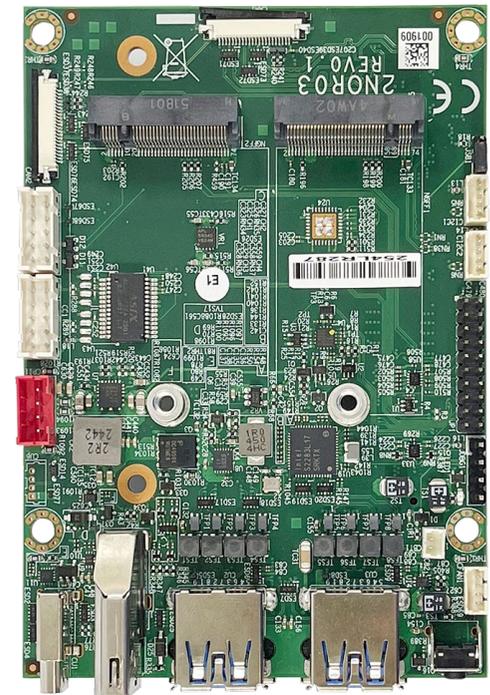
2NOR03

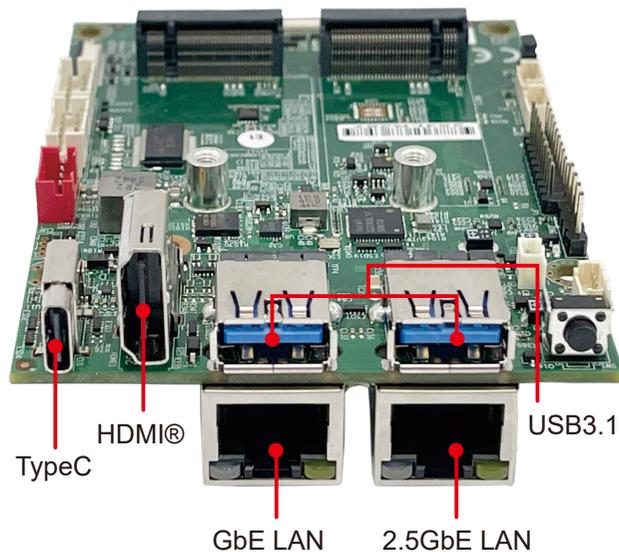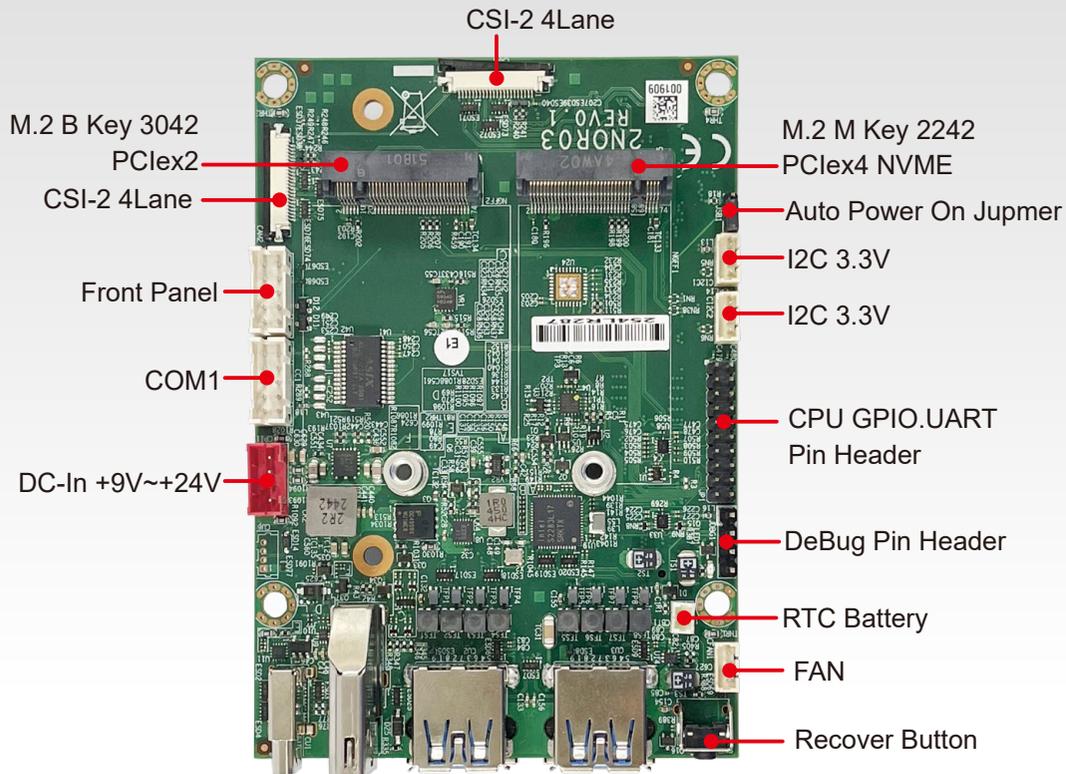## Edge AI Solution with NVIDIA Jetson Orin NX / Nano (Super) platform

LEX SYSTEM ultra-compact 2NOR03 carrier board leverages the power of NVIDIA Jetson Orin NX / Nano (Super) modules to deliver exceptional AI performance, ranging from 40 to 100 TOPS at the edge. Designed specifically for compute-intensive AI video applications, the 2NOR03 features a rich set of I/O interfaces, including 1 x GbE, 1 x 2.5GbE, HDMI®, 2 x USB 3.1, 1 x USB Type-C (USB 3.1/2.0 OTG), 1 x RS232, 2 x M.2 slots, and 2 x MIPI CSI connectors. It also supports a wide-range DC-IN power input, making it ideal for implementing AI video solutions and meeting the diverse requirements of Edge AI applications.

Function Map

- CSI-2 4Lane
- M.2 B Key 3042 PCIex2
- CSI-2 4Lane
- Front Panel
- COM1
- DC-In +9V~+24V
- M.2 M Key 2242 PCIex4 NVME
- Auto Power On Jumper
- I2C 3.3V
- I2C 3.3V
- CPU GPIO.UART Pin Header
- DeBug Pin Header
- RTC Battery
- FAN
- Recover Button

- TypeC
- HDMI®
- GbE LAN
- 2.5GbE LAN
- USB3.1

NVIDIA

70 x 99.8 mm

2NOR03

Compact Edge AI solution for ARM-based embedded

Applications

CPU Board :

- NVIDIA Jetson Nano(Super): 4 / 8GB LPDDR5, 20 / 40 TOPs
- NVIDIA Jetson NX: 8 / 16GB LPDDR5, 70 / 100 TOPs
- AI Accelerator: NVIDIA® Jetson Orin™ Nano (Super) / Orin™ NX

Features :

- 1 x HDMI ®, 1 x GbE, 1 x 2.5GbE
- 2 x USB 3.1, 1 x Type C USB 3.1 / 2.0 (OTG)
- 1 x RS232 (OEM Option RS422)
- 1 x M.2 M key, 1 x M.2 B key
- Internal wafer: 2 x MIPI CSI, URAT, 2 x I2C
- wide-range 9-24 DC-IN

Data Sheet

Lex SYSTEM®

www.lex.com.tw

NVIDIA **Jetson Orin™**

camera | Wi-Fi | GPS | Bluetooth

FOX - 2NOR03 + GM04

Compact Fanless Edge AI Box :

Dimension : 112.5W x 112.5D x 74H mm

• Palm size & Ultra Light Edge AI System

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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