

NXP-HAI02 & NXP-HAI03

Simplify Edge AI development process with
NXP i.MX8M + Hailo-8™ platform



ODM with Camera



MINI-NXP-HAI02

MINI-NXP-HAI03



NXP-HAI02

NXP-HAI03

NXP-HAI02 & NXP-HAI03

Simplify Edge AI development process with NXP i.MX8M + Hailo-8™ platform

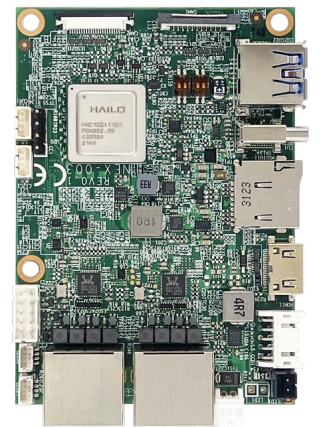


LEX SYSTEM offers two advanced ARM-based embedded solutions—NXP-HAI02 and NXP-HAI03—both powered by the NXP i.MX 8M Plus processor and integrated with the Hailo-8™ AI accelerator, delivering up to 26 TOPS of AI performance for edge computing applications. Each solution features 8GB LPDDR4 memory, with optional up to 256GB eMMC storage, dual USB 3.0 ports, and Mini HDMI® output—ideal for AI workloads such as object detection and image recognition.

The key difference lies in their I/O design. NXP-HAI02 is a compact board with industrial I/O options like RJ45, Power Input, RS485 and digital inputs via M8 connectors, making it ideal for vision-based edge AI in industrial environments. NXP-HAI03 offers the same processing power but comes with a different I/O layout designed for applications needing alternative peripheral connections. Both support a wide 9–24V DC input and operate reliably in fanless MINI systems, making them ideal for harsh industrial environments.



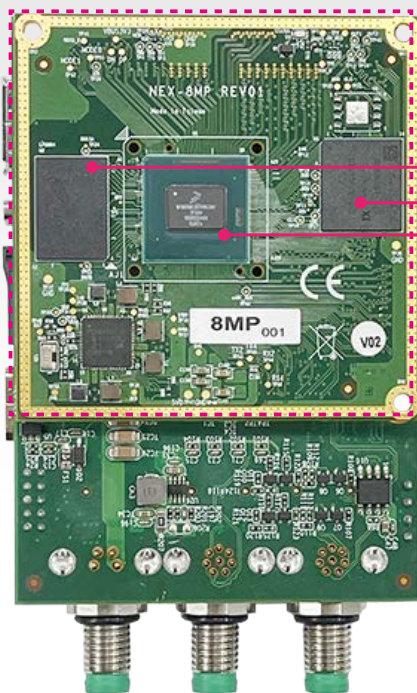
NXP-HAI02



NXP-HAI03

Function Map

NXP-HAI02-Bottom



LPDDR4 8GB
eMMC 32~256GB
CPU



i.MX8M Plus
ARM CORTEX 4x A53 + M7



EMPOWERED BY
HAILO

**60 x 86
mm**

NXP-HAI02

**Simplify Edge AI development process with
Ultra Compact NXP i.MX8M and Hailo-8™
platform**

- NXP i.MX8M Plus (Quad core) ARM Cortex-A53 processor up to 1.8 GHz (NEX-8MP)
- LPDDR4, 4 / 8GB (NEX-8MP)
- 32 GB eMMC 5.1 (NEX-8MP), option 64 / 128 / 256GB ; 1 x Micro SD
- Onboard Hailo-8™ AI processor ; 2 x MIPI – CSI
- 1 x Mini HDMI® ; 1 x GbE (M8 I/O) ; 1 x USB 3.0 Type A,
- 1 x USB 3.0 Type C ; 1 x RS485 (M8 I/O)

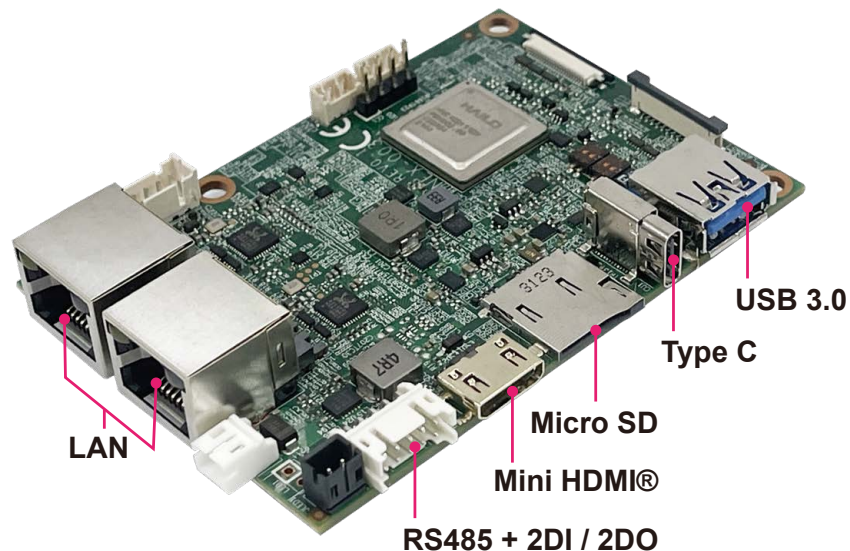
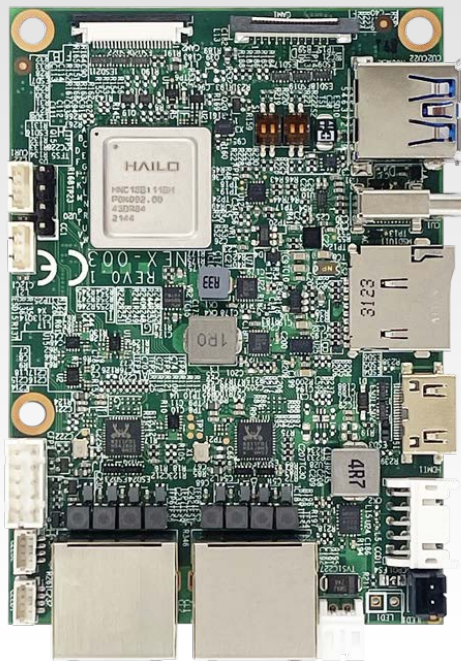


Data Sheet

Lex SYSTEM®

www.lex.com.tw

Function Map



i.MX8M Plus
ARM CORTEX 4x A53 + M7



EMPOWERED BY
HAILO

**60 x 86
mm**

NXP-HAI03

**Simplify Edge AI development process with
Ultra Compact NXP i.MX8M and Hailo-8™
platform**

- NXP i.MX8M Plus (Quad core) ARM Cortex-A53 processor up to 1.8 GHz (NEX-8MP)
- LPDDR4, 4 / 8GB (NEX-8MP)
- 32 GB eMMC 5.1 (NEX-8MP), option 64 / 128 / 256GB ;
1 x Micro SD
- Onboard Hailo-8™ AI processor ; 2 x MIPI-CSI
- 1 x Mini HDMI® ; 2 x GbE (RJ45) ; 1 x USB 3.0 Type A,
1 x USB 3.0 Type C ; 1 x RS485 & 2 DI/O



Lex SYSTEM®

www.lex.com.tw



MINI –NXP HAI02

Dimension: 66W x 94D x 30.8H mm

Compact Edge AI System



MINI –NXP HAI03



ODM with Camera

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.

Taiwan Headquarters LEX Computech Co. Ltd

Tel: 886 2 2228-1055
Fax: 886 2 2228-1056
Email:
lex.sales@lex.com.tw
www.lex.com.tw

Europe Branch Office LEXCOM B.V.

Tel: 31 73 687-2390
Fax: 31 73 687-2398
Email:
info@lex.com.tw
www.lex.com.tw

CHINA Distributor

Tel: 18500172031 or 13823511963
E-mail: peter@yanyitong.com.cn

Tel: 13379296808 同微信号
WeChat : 13379296808
E-mail: robin@yanyitong.com.cn