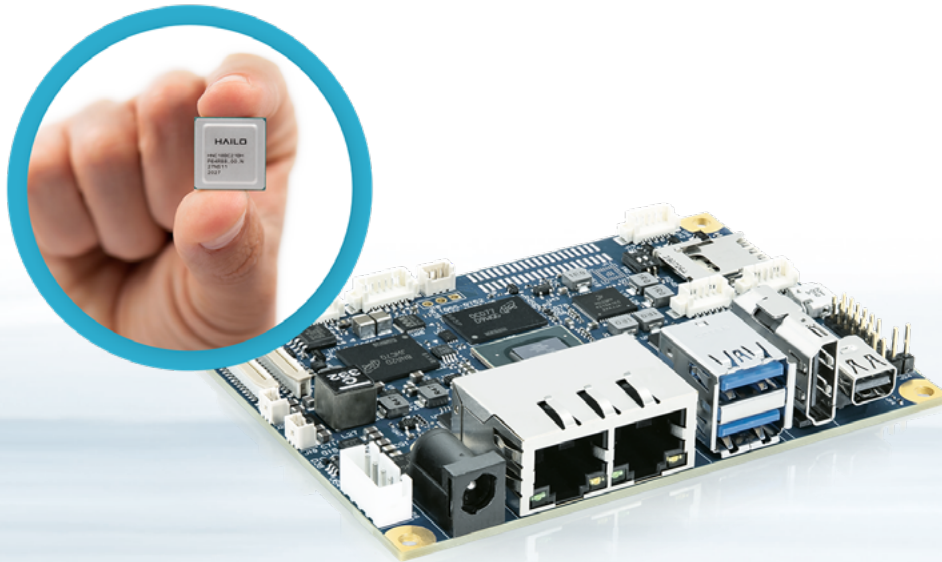


pITX-iMX8M-AI-H8

pITX AI Platform with Hailo-8™



Industrial SBC for high-performance edge AI inference solutions based on NXP i.MX8M & best-in-class Hailo-8™ AI accelerator

- ▶ High-performance compact and power-efficient AI SBC solution
- ▶ NXP i.MX8M quad core processor & Hailo-8™ AI accelerator
- ▶ Software compatible to common AI tools
- ▶ Fully integrated runtime system

POSSIBILITIES START HERE

pITX-iMX8M-AI-H8

pITX AI Platform with Hailo-8™

The Kontron pITX AI platform pITX-iMX8M-AI-H8 is based on the very compact NXP i.MX8M processor and the best-in-class Hailo-8™ AI accelerator. The advanced Hailo-8™ AI processor, performing at 26 tera-operations per second (TOPS) at a typical power consumption of less than 2.5 watts, enables edge devices to run at performance levels previously only possible in the cloud. The small and power-efficient solution allows easy integration into machines and controls over a wide temperature range. Due to the pre-installed software and compatibility with applications

around Google TensorFlow, AI based vision applications can be realized easily with short time to market. The platform allows for viability in gateway or control tasks through numerous interfaces, enriched with simultaneous AI inference tasks. Hailo's developer zone includes numerous pre-trained neural networks ("model zoo"), a bit-accurate simulator and performance tool, a dataflow compiler, and the Hailo "Tappas" high performance application toolkit, enabling the highly efficient implementation of innovative AI solutions at reduced time-to-market and engineering costs.

▶ TECHNICAL INFORMATION

PROCESSOR	NXP processor - i.MX8M Quad 1.3 GHz (Industry) Arm® Cortex®-A53 CPU cores
AI ACCELERATOR	Hailo-8™
MEMORY	4 GByte RAM
STORAGE	8 GByte eMMC
USB	2x USB 3.0, 1x USB 2.0 internal, 1x USB OTG internal
ETHERNET	2x 10/100/1000 Gigabit Ethernet
LVDS	Dual Channel LVDS
GPIO	8x GPIO internal header
AUDIO	1x SPDIF internal headers, 1x Line-In, Line-Out and Microphone-In internal header
SECURITY	TPM 2.0 Infineon
POWER	12 V DC/1x Locking barrel-type DC Power Jack, 1x Internal 4-pin power connector (power supply is not included in package content)
FORM FACTOR	pico ITX family with 100 x 72 mm
SOFTWARE	Linux image in eMMC
AI SOFTWARE	Tensorflow (ONNX) compatible by using the Hailo AI SDK Toolchain

▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
PITX-IMX8M-AI-H8	pITX NXP i.MX8M Quad Core processor 4 GByte RAM, 8 GByte eMMC Hailo-8™ module
POWER SUPPLY	lockable 12 V, 60 W power supply for pITX-i.MX8M
HEAT SINK	Passive cooling solution

▶ GLOBAL HEADQUARTERS

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