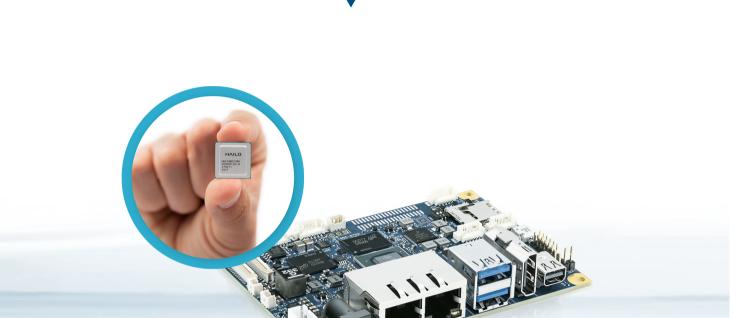
$\begin{array}{c} pITX-iMX8M-AI-H8 \\ pITX \ AI \ Starterkit \ with \ Hailo-8^{\top\!\!\!/} \end{array}$



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 solution
- ► NXP i.MX8M quad core processor & Hailo-8TM AI accelerator
- ► Software compatible to common AI tools
- ► Fully integrated runtime system



pITX-iMX8M-AI-H8 pITX AI Starterkit with Hailo-8™

The Kontron pITX AI Starterkit 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 performs up to 26 tera-operations per second (TOPS). With a typical power consumption of less than 2.5 Watts, edge devices can deliver performance that was 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, Al-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 Al 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 Al 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	8 GByte RAM
STORAGE	64 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 included in Starterkit
FORM FACTOR	pico ITX family with 100 x 72 mm
SOFTWARE	Linux image on SD card
AI SOFTWARE	Tensorflow (ONNX) compatible by using the Hailo AI SDK Toolchain

ORDERING INFORMATION

ARTICLE	DESCRIPTION
pITX-iMX8M-AI-H8 STARTERKIT	pITX NXP i.MX8M Quad Core processor 4 GByte RAM, 64 GByte eMMC Hailo-8™ module

Other pITX-i.MX8M variants with Hailo-8™ are available on request

► GLOBAL HEADQUARTERS

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