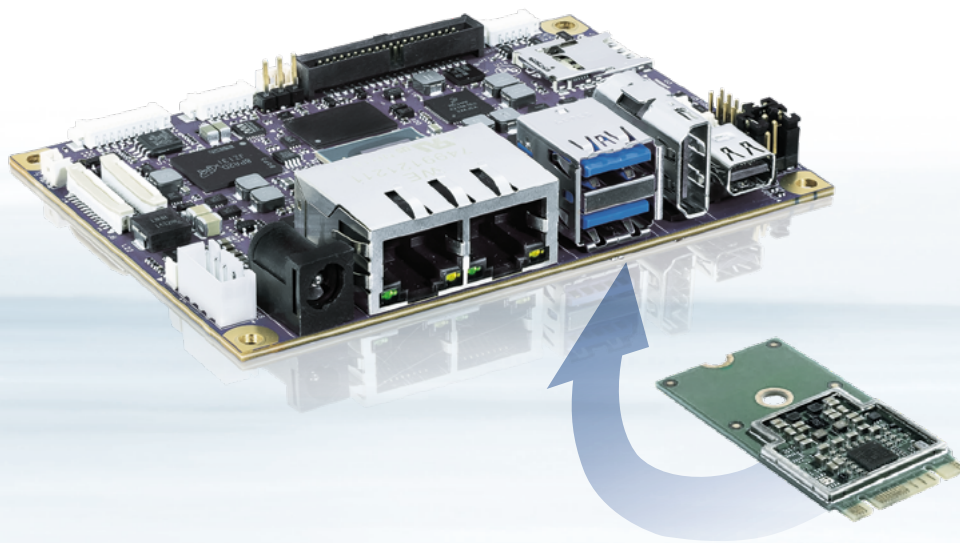# AI-pITX-100-GC
Kontron Industrial AI Platform

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Kontron Industrial Platform for Artificial Intelligence based on NXP i.MX8 M & Google Coral Edge TPU

- ▶ Industrial-grade AI platform
- ▶ NXP i.MX8 M Quad Core processor & Google Coral Edge TPU
- ▶ TensorFlow Lite compatible
- ▶ Fully integrated runtime system and tools

POSSIBILITIES START HERE

kontron
S&T Group

AI-pITX-100-GC

The Kontron Industrial AI Platform AI-pITX-100-GC is based on the very compact NXP i.MX8M platform and the integrated Google Coral Edge TPU accelerator and enables the development of robust industrial applications in the AI environment. The compact and powerful design allows easy integration into machines and control systems which also have extended temperature requirements.

Due to the pre-installed software and compatibility with applications around Google TensorFlow Lite, AI-based image processing applications can be realized easily and with short time to market. The platform enables the feasibility of gateway or control tasks through numerous interfaces, enriched with simultaneous AI inference tasks.

▶ TECHNICAL INFORMATION

HOST PROCESSOR	NXP processor - iMX8 M Quad 1.3 GHz (Industry) Arm® Cortex®-A53 CPU cores
AI TPU	Google Coral Edge TPU
MEMORY	4 GByte RAM
STORAGE	8 GByte eMMC
USB	2x USB 3.0 I/O, 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 mm x 72 mm (heat sink is not included in package content)
SOFTWARE	Yocto based Linux image in eMMC Kernel 4.18
AI SOFTWARE	TensorFlow Lite compatible (C++, Python) See (Github) Google Coral for more information
CAMERA	USB camera, v4l2 (video for linux v2) compatible (not included in package content)

▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
AI-PITX-100-GC	1067-9909	pITX NXP i.MX8 M Quad Core processor, 4 GByte RAM, 8 GByte eMMC, Google Coral Edge TPU, Linux Yocto Image (camera and power supply are not included in package content)
HEAT SINK	1064-7069	passive cooling solution
POWER SUPPLY	1067-1755	lockable 12 V, 60 W power supply for pITX-imx8m

▶ GLOBAL HEADQUARTERS

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