PRODUCT BRIEF

DEEPCRAFT™ Model Converter

Convert, optimize and validate AI models to run on Infineon MCUs

The DEEPCRAFT™ Model Converter is an application that supports the Bring Your Own Model (BYOM) concept. The application helps machine learning (ML) engineers work more efficiently by streamlining the processes for running their models on edge devices, specifically on Infineon MCUs.

Use the DEEPCRAFT™ Model Converter to:

- Convert AI models to run on the edge
- Optimize AI models to be highly compact and high-performance, designed to run on Infineon MCUs
- Validate Edge AI models with a dataset to check that the generated code matches the performance in the original models

The DEEPCRAFT™ Model Converter has an easy-to-use graphical user interface (GUI) and runs on Windows, Linux and Mac. It includes a Command Line Interface (CLI) to enable easy integration into Continuous Integration/Continuous Delivery (CI/CD) pipelines and other scripted workflows. This means a lot of work can be automated.

Initially it supports conversion to the following hardware platforms:

- Infineon PSOC™ 6
  - Arm® Cortex® M4
- Infineon PSOC™ Edge
  - Arm® Cortex® M33 + Infineon NNLite2
  - Arm® Cortex® M55 + Arm® Ethos U55

Support for more Infineon platforms will be added.

The DEEPCRAFT™ Model Converter is targeted toward ML engineers and embedded engineers who want to convert and optimize AI models they've already developed and run them on the edge.

For more information visit: infineon.com/deepcraft and infineon.com/deepcraft-model-converter

Key features

Software application for converting, optimizing and validating AI models to run on Infineon MCUs

- Bring Your Own Model (BYOM)
- Support for tflite, h5, keras and Pytorch AI models (pt2)
- For target devices PSOC™ 6 and PSOC™ Edge
- Offers both GUI and CLI
- Runs on Windows, Linux, Mac
- Quantization to int8x8 and int16x8
- Sparsity for quantized models
- Support for interpreterless on PSOC™ 6 and PSOC™ Edge (M33/NNlite)
- Support for Multi Input/Output
- Validation on device

Key benefits

- Saves time and improves efficiency
- For ML experts and non-experts alike
- Enables developers to run proprietary and open-source AI models on edge devices

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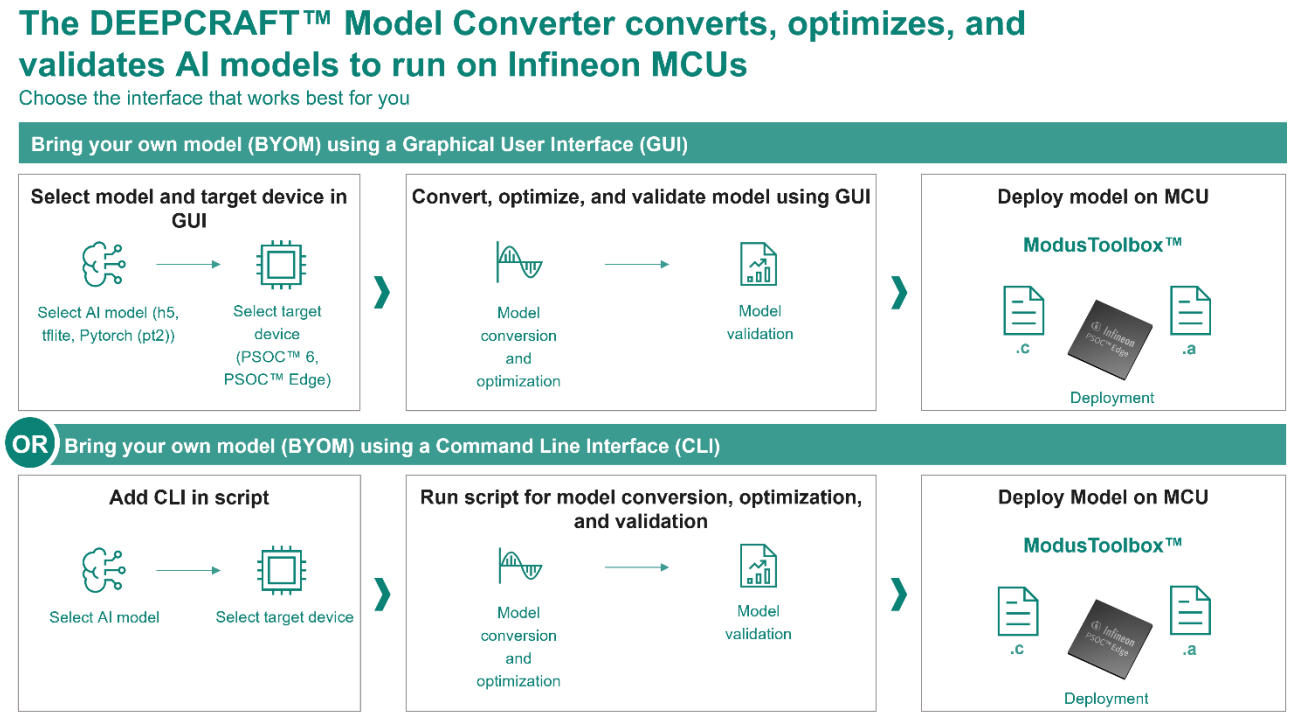
Workflow diagram



Evaluation kit part numbers

PN	Kit	Function
KIT_PSE84_AI	PSOC™ Edge E84 AI Kit	Low-cost kit with multiple sensors for evaluation of AI capabilities and fast prototyping
KIT_PSE84_EVAL	PSOC™ Edge E84 Evaluation Kit	General purpose evaluation kit for PSOC™ Edge with full function integration of all interfaces
CY8CKIT-062S2-AI	PSOC™ 6 AI Kit	Low-cost evaluation board with efficient form factor for easy prototyping

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