



DEEPCRAFT™ Model Converter

Convert, optimize and validate AI models for Infineon MCUs

Short Form Presentation

October 2025



Explosion of Data

40.6 billion IoT devices¹ in 2034 generating all kinds of sensor data

Surge in Compute Performance

~500x Machine Learning performance at the Edge with NPUs

6.2 Billion Edge Devices²

In 2030

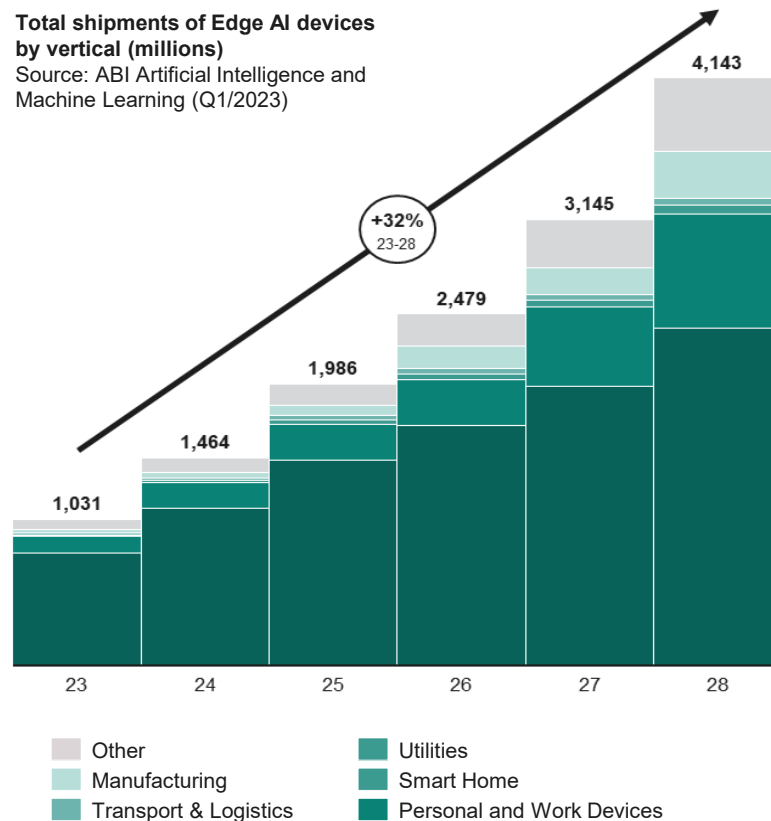
Edge AI is a key enabler of IoT and beyond, offering significant market opportunity for intelligent devices

Edge AI models run on devices at the edge of a network. Close to the source of data. Available on MCUs.

Edge AI is growing

Total shipments of Edge AI devices by vertical (millions)

Source: ABI Artificial Intelligence and Machine Learning (Q1/2023)



Benefits of Edge AI

Low latency and deterministic response: faster system response times and lower latency vs. cloud-based analytics

Improved Security & Data privacy: Data never has to leave your device, thus increasing data privacy and security

Increased system reliability: not reliant on a network that may suffer connection or bandwidth issues

Low power consumption: not streaming data, leads to power savings

Small memory requirement: reduced memory size per processor enables smarter IoT Devices

Reduced system cost: saving cloud cost



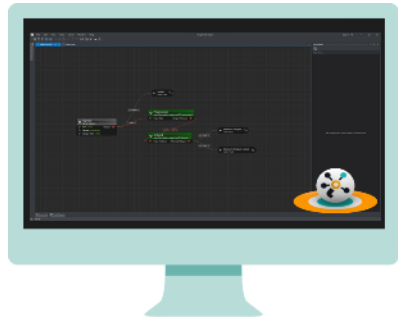
DEEPCRAFT™ AI Suite is your fast-track to intelligent, low-power Edge AI products



DEEPCRAFT™ products provide **innovative, trustworthy, convenient and green AI** software solutions for customers. Our **portfolio** offers **end-to-end Edge AI** and **best-in-class system performance in combination with Infineon Hardware**.

Platform & Tools

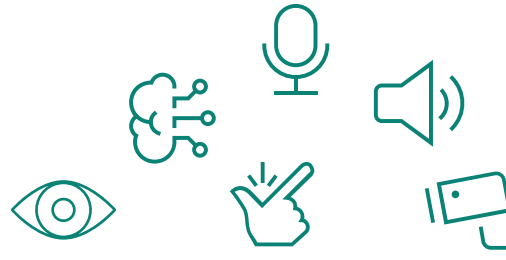
For data collection & pre-processing,
model training, model conversion &
deployment



DEEPCRAFT™ Studio
20+ DEEPCRAFT™ Studio Accelerators
DEEPCRAFT™ Model Converter

Solutions

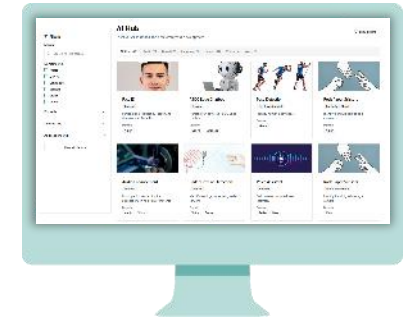
Collection of high value tools, models and
configurators to add AI-based capabilities. Range
across sensor and data types, from off-the-shelf to
customizable solutions.



DEEPCRAFT™ Ready Models
DEEPCRAFT™ Audio Enhancement
DEEPCRAFT™ Voice Assistant
DEEPCRAFT™ Face ID*

DEEPCRAFT™ AI Hub

Find the DEEPCRAFT™ Studio platform,
plus the models, demos, solutions, tools
and more that you need all in one
centralized hub.



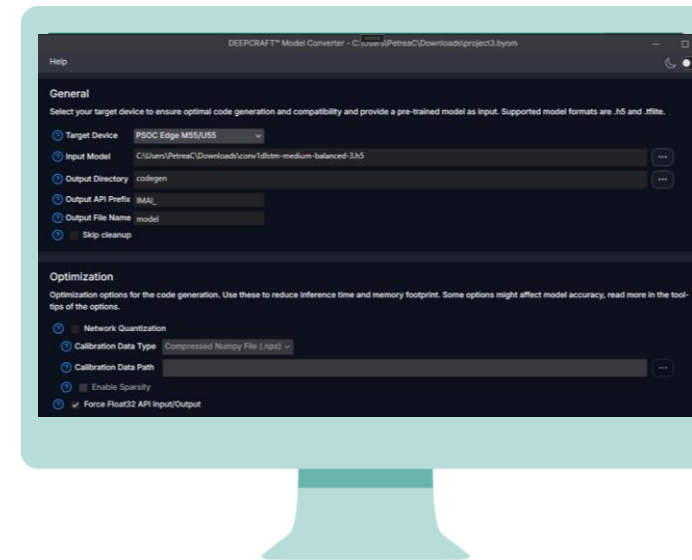
Explore the DEEPCRAFT™ AI Suite,
open-source models, and more.
Everything Edge AI in one place!
[Link: DEEPCRAFT™ AI Hub](#)

Convert models for the edge with DEEPCRAFT™ Model Converter!

DEEPCRAFT™ Model Converter

- Bring your own model (BYOM) for Infineon MCUs
- Choose between **easy-to-use GUI** or **CLI**
- Supports several AI model input formats (initially **h5, Tensorflow lite and Pytorch**, with other formats to follow)
- Supports several target device formats (initially **PSOC™ 6 and PSOC™ Edge (M33/NNlite and M55/U55)**, with other MCUs to follow)
- Includes **powerful optimization features**, eg **quantization**
- Includes **powerful validation features** – edge models can be **evaluated on desktop**
- **Runs on Windows, Linux and Mac**
- **Free to use**

The DEEPCRAFT™ Model Converter is a software application for converting, optimizing and validating AI models to run on Infineon MCUs.



The DEEPCRAFT™ Model Converter converts, optimizes, and validates AI models to run on Infineon MCUs



Choose the interface that works best for you

Bring your own model (BYOM) using a Graphical User Interface (GUI)

Select model and target device in GUI



Select AI model (h5, tflite, Pytorch (pt2))



Select target device (PSOC™ 6, PSOC™ Edge)



Convert, optimize, and validate model using GUI



Model conversion and optimization



Model validation



Deploy model on MCU

ModusToolbox™



.c



.a

Deployment

OR Bring your own model (BYOM) using a Command Line Interface (CLI)

Add CLI in script



Select AI model



Select target device



Run script for model conversion, optimization, and validation



Model conversion and optimization



Model validation



Deploy Model on MCU

ModusToolbox™



.c



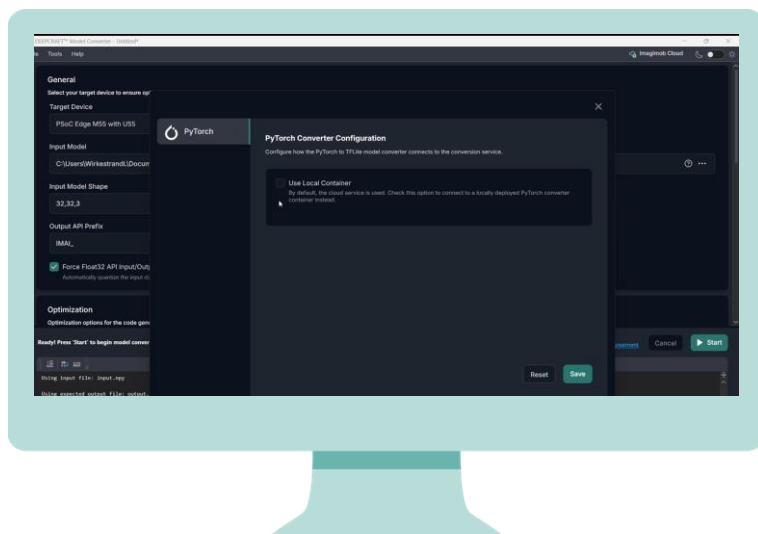
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Deployment

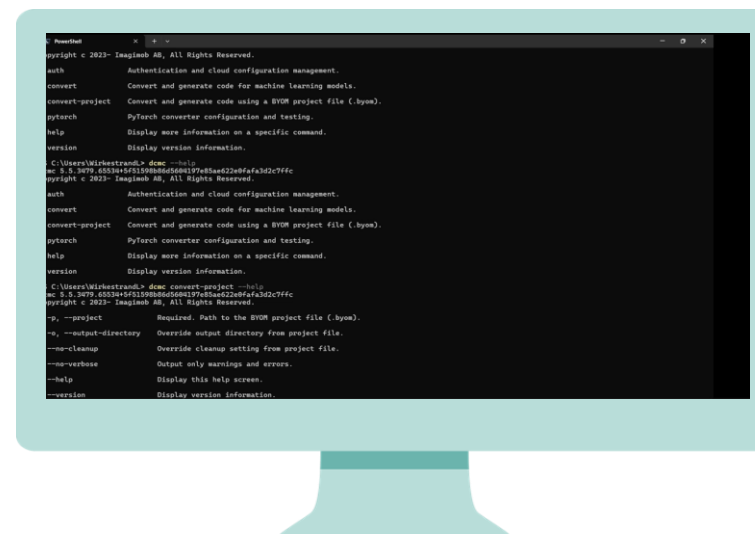
DEEPCRAFT™ Model Converter

- Select AI model and target device
- Upload data for validation
- Pick your option settings
- Run conversion and optimization
- Validate on desktop

Graphical User Interface (GUI)



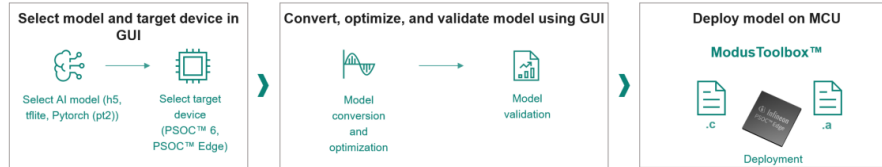
Command Line Interface (CLI)



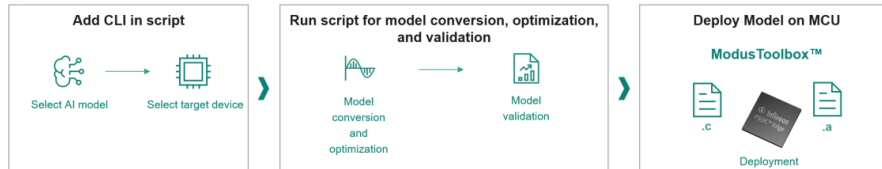
DEEPCRAFT™ Model Converter

Convert, optimize and validate to run on Infineon MCUs

Bring your own model (BYOM) using a Graphical User Interface (GUI)



OR Bring your own model (BYOM) using a Command Line Interface (CLI)



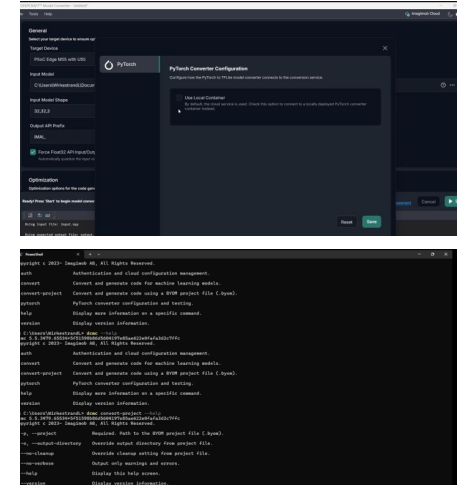
Eval Boards and Kits

- **PSOC™ Edge E84 Evaluation Kit**
 - General purpose evaluation kit for PSOC™ Edge with full functional integration of all interfaces
 - Supports code example
- **PSOC™ 6 AI Evaluation Kit**
 - Low-cost kit with multiple sensors for evaluation of AI capabilities and fast prototyping
- **PSOC™ Edge E84 AI Evaluation Kit**
 - Low-cost kit with multiple sensors for evaluation of AI capabilities and fast prototyping
 - Supports code example



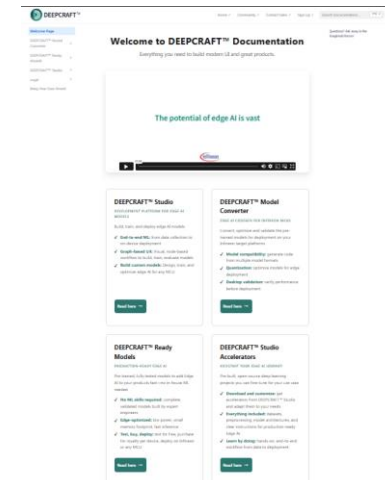
Features

- Supports h5, Tensorflow lite and Pytorch (pt2) AI model formats
- Supports PSOC™ 6, PSOC™ Edge M33/NNlite and PSOC™ Edge M55/U55.
- Runs on Windows, Linux and Mac
- Optimization including quantization
- Validates on desktop
- Comes as Graphical User Interface (GUI) and Command Line Interface (CLI)



Collateral

- **Code examples**
 - Deploy code on device with ModusToolbox™
- **Training material and support**
 - User documentation
 - Training videos
 - Developer community for support



Find everything you need to add Edge AI to your devices in the DEEPCRAFT™ AI Hub

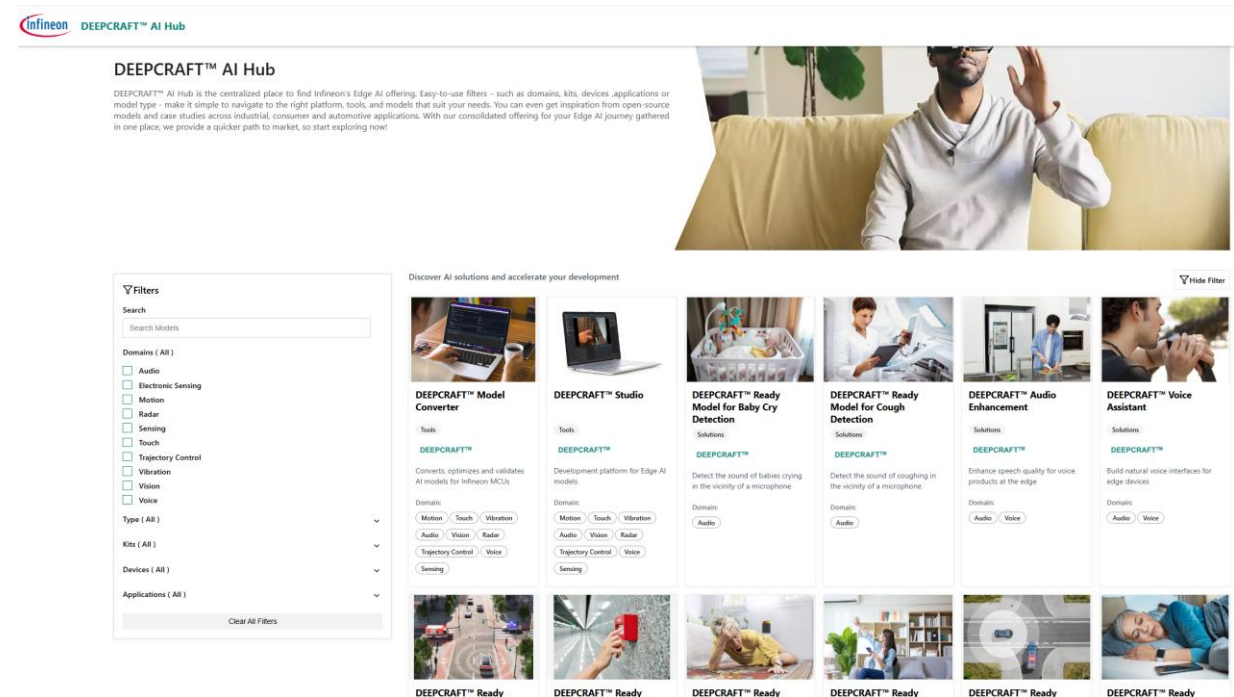


DEEPCRAFT™ AI Hub

Your Edge AI Solutions in One Place

- **Centralized Access:** One-stop shop for all Edge AI software needs
- **Organized by Use Case:** Easily find the right solution for your specific requirements
- **Customer enablement:** Comprehensive resources for successful implementation
- **Diverse Solutions:** Explore the DEEPCRAFT™ AI Suite as well as third-party and open-source content for maximum flexibility
- **Accelerated Time to Market:** Consolidated offerings to get you to market faster

Your go-to for everything Edge AI!



Browse through the AI Hub to find everything from AI models, to our development platform & tools, solutions, inspiring concepts, and more!

Link: <https://deepcraft.infineon.com>

How to get your started with DEEPCRAFT™ Model Converter

1. Download

Download DEEPCRAFT™ Model Converter from [Infineon Developer Center](#). New versions will be released in regular intervals.

Good starting resources can be found in the user [documentation](#).

2. Setup Environment

The DEEPCRAFT™ Model Converter comes as an easy-to-use Graphical User Interface (GUI) and a Command Line Interface (CLI) to enable integration into Continuous Integration (CI)/Continuous Delivery (CD) pipelines and other workflow scripts.

It runs on Windows, Linux and Mac.

3. Support

The goal of DEEPCRAFT™ Model Converter is to be a hands-off approach, providing you with sufficient tools to help you convert your AI models.

When technical questions arise and the documentation is not sufficient, please turn to our [Developer Community](#) to ask for support.

More information to get started



Web Pages

- [DEEPCRAFT™ AI Suite](#)
- [DEEPCRAFT™ Model Converter](#)
- [DEEPCRAFT™ AI Hub](#)

Development Kits, Module Partners, and Software

- [PSOC™ 6 AI EVK \(CY8CKIT-062S2-AI\)](#)
- [PSOC™ Edge AI Kit](#)
- [PSOC™ Edge Evaluation kit](#)

Product Collateral

- Product Briefs: [DEEPCRAFT™ Model Converter](#)

Developer Community (For Technical Support)

- [Ask the Community](#)

Other

- [PSOC™ Edge](#)
- [Imagimob YouTube Channel](#)
- Getting started information at developer.imagimob.com



Competitive overview

	DEEPCRAFT Model Converter	STM32Cube.AI	Renesas e-AI	NXP eIQ Toolkit
Support for BYOM	Yes	Yes	Yes	Yes
Support for Infineon MCUs	Yes	No	No	No
GUI	Yes	Yes	Yes	Yes
CLI	Yes	Yes	Yes	Yes
Support for h5, tflite	Yes	Yes	Yes	Yes
Support for Pytorch	Yes (pt2)	Yes (via ONNX)	Yes	Yes
Support for Matlab	No	Yes (via ONNX)	No	No
Support for ONNX	No	Yes	Yes	Yes
Validation on desktop	Yes	Yes	Yes	Yes
Deploy on board	Yes (with ModusToolbox)	Yes	Yes	Yes
Validate on board	No	Yes	No	Yes
Support for HW AI accelerators	Yes	Yes	Yes	Yes

PSOC™ Edge E84 Evaluation Kit

KIT_PSE84_EVAL



Kit Content

- PSOC™ Edge E84 Evaluation Kit
- USB Type-C to Type-C cable
- 4.3in capacitive touch display and USB camera module

Highlights

- PSOC™ Edge E84 Evaluation kit hardware evaluation for rapid prototyping and development of applications based on PSOC™ Edge
- Evaluation Kit provides easy access to all the devices interfaces and capabilities
- Evaluation kit consists of a base board routing out all the key interfaces of the device and a system-on-module featuring PSOC™ Edge E84

Featured Components

- PSE846GPS2DBZC4 PSOC™ Edge E84 MCU
- PSOC™ 4000T/ CAPSENSE™ Co-processor
- AIROC™ CY55513 Wi-Fi + Bluetooth® combo chip
- IM73A135V01 Analog Microphone
- IM73D122V01 Digital Microphone
- S25FS128SAGBHM203 16MB Flash Memory
- S70KS1283GABHI020 16MB PSRAM



Kit Status

- **Availability:** Now
- **Order P/N:** [KIT_PSE84_EVAL](#)

PSOC™ Edge E84 AI Kit

KIT_PSE84_AI



Kit Content

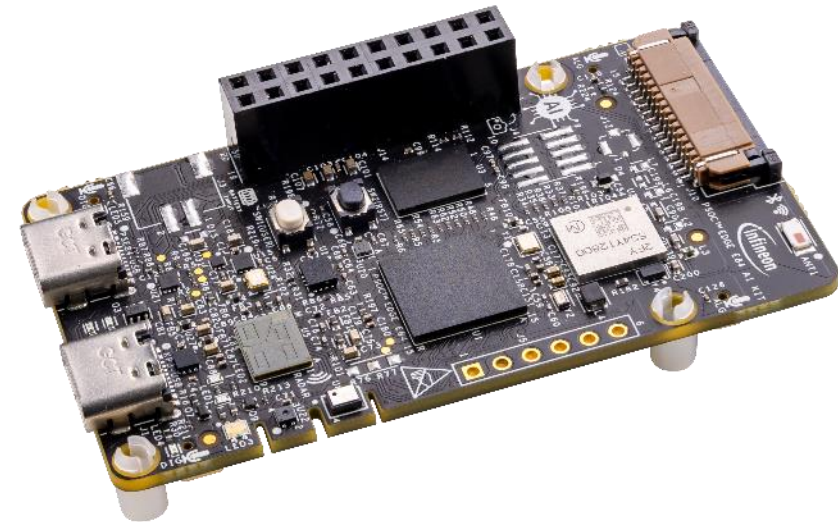
- PSOC™ Edge E84 AI Kit
- DVP Camera Module

Highlights

- PSOC™ Edge E84 AI Kit platform designed to support the creation of Edge AI-powered applications
- Optimized for rapid prototyping and development of embedded systems leveraging the versatile PSOC™ Edge E84 microcontroller
- Data collection enabled via radar, acoustic, pressure & IMU sensors available in the kit
- Enabling the evaluation of Infineon's ML platform DEEPCRAFT™ AI Suite

Featured Components

- PSE846GPS2DBZC4 PSOC™ Edge E84 MCU
- AIROC™ CY55513 Wi-Fi + Bluetooth® combo chip
- BGT60TR13C 60GHz Radar
- IM73A135V01 Analog Microphone
- IM73D122V01 Digital Microphone
- DPS368 Barometric pressure sensor
- S25FS128SAGBHM203 16MB Flash Memory
- S70KS1283GABHI020 16MB PSRAM



Kit Status

- **Availability:** Now
- **Order P/N:** [KIT_PSE84_AI](#)