

DEEPCRAFT™ Studio

End-to-end development platform for AI/machine learning on edge devices

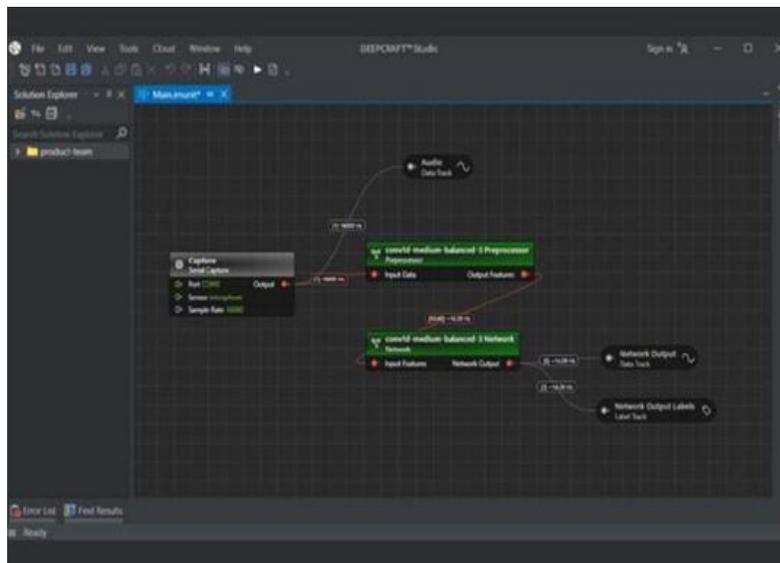
DEEPCRAFT™ Studio is the fastest way for experts and non-experts alike to easily build production grade machine learning (ML) models for a wide range of use cases.

This end-to-end development platform for AI/ML, together with ModusToolbox™, covers the entire ML to embedded software journey in a way that is optimized for edge devices.

Developing ML applications for edge devices is both complex and costly, and typically requires large engineering teams. DEEPCRAFT™ Studio reduces the development resources needed by streamlining the entire process from data collection/ingestion, through model building, all the way to deployment, and verification on device. This workflow is visualized using the platform's unique Graph UX interface.

DEEPCRAFT™ Studio is targeted toward domain experts, ML engineers, and embedded engineers who want to develop custom ML applications for embedded devices. This works for companies that want to build an ML model from scratch, starting with data collection and import. It also works for companies who have ML models that need to be optimized for the edge, or for specific hardware.

For more information visit: infineon.com/DEEPCRAFT



Key features

- Supports the end-to-end development process from data collection to model deployment
- Model optimization enables building of custom ML models for any MCU
- Tested and proven for development of production ready ML models
- Unique Graph UX interface makes development easier to follow and provides insight into ML models as they are built

Key benefits

- Reduces time to market and the complexity of Edge AI development
- Simplifies model validation and quality assessment
- Flexible and customizable to your hardware and use-case
- For ML experts and non-experts alike
- Supports entry at any stage of development; start from scratch or import and improve existing models
- Transparent data policy lets users retain control of data

Key use cases

- Acoustic event detection (i.e., siren, coughing, etc.) in commercial products
- Gesture detection and material classification using a radar sensor
- Vibration/signal analysis (i.e., for classifying the state of a machine)
- Motion classification
- Keyword detection
- Object detection



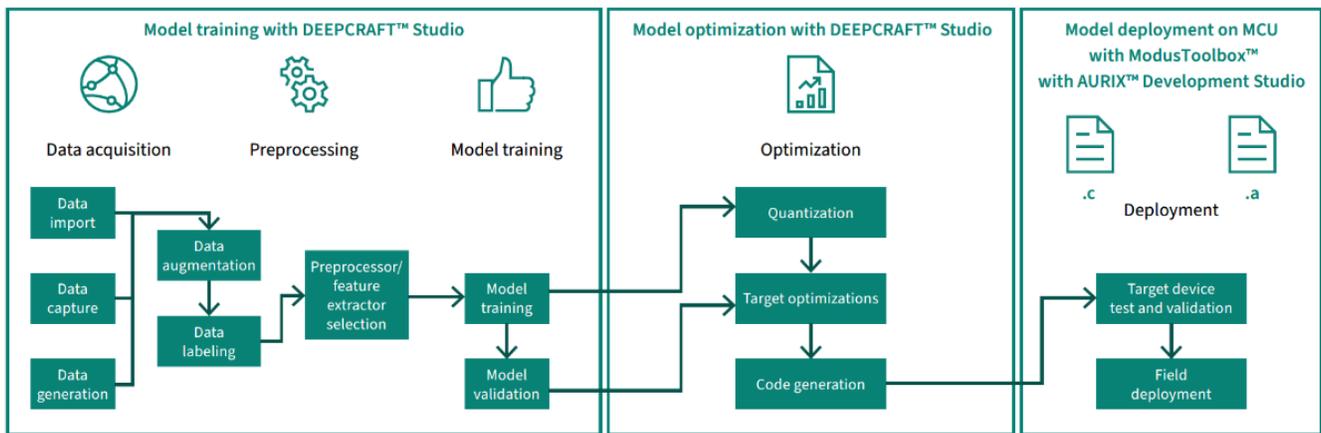
PRODUCT BRIEF

Specification and compatibility

Hardware requirements

- Models developed in DEEPCRAFT™ Studio can be optimized and packaged for deployment onto PSOC™ 6, AURIX™ TC3x, and any other MCU (streamlined process for Infineon hardware via ModusToolbox™)
- Infineon's AI kits are recommended or evaluation:
 - [PSOC™ 6 AI Kit](#)
 - [PSOC™ Edge AI Kit](#)
 - [AURIX™ TC375 Lite Kit](#)
 - [TRAVEO™ T2G B-H LITE Kit](#)
 - [TRAVEO™ T2G B-E LITE Kit](#)
 - [XMC7200 Evaluation Kit](#)
- Models can operate on a wide range of input from many different sensors (such as camera, CAPSENSE, microphone, radar, currents/voltages, and most time-series data)

Block diagram



Additional software tools

- DEEPCRAFT™ Studio is powered by Imagimob, an Infineon Technologies company
- More information and guides available at developer.imagimob.com
- For streamlined deployment onto Infineon hardware, use [ModusToolbox™ Software](#)
- Visit infineon.com/deepcraft to learn more. From there, you can register a free account and download [DEEPCRAFT™ Studio](#), where you'll get access to starter projects, code examples, etc.

Hardware requirements

- Model footprint starting as low as 1 kB RAM and 1 kB FLASH
- AutoML optimizes your models all the way from the neural network structure to target-specific optimizations for your MCU or NPU

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