



Infineon Edge AI **Secured intelligence. Everywhere.**

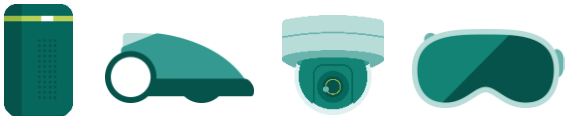


Infineon is bringing secured edge intelligence everywhere

Edge AI solutions from Infineon bring new levels of secured AI / ML intelligence and enhanced user experiences to all kinds of endpoint devices, while increasing power efficiency significantly at the same time.

Discover our revolutionary Edge AI solutions in Consumer/IoT, Health, Industry and Mobility.

Edge AI for Consumer / IoT



Exemplary use cases:
 Smart speakers
 Smart consumer devices *
 Smart cameras
 AR/VR/XR

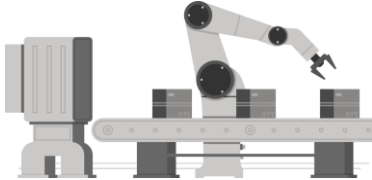
* e.g. robotic lawn mower without perimeter wires

Edge AI for Health



Exemplary use cases:
 Smart medical devices
 Health wearables
 Vital signals monitoring
 Fall detection

Edge AI for Industry



Exemplary use cases:
 Smart robots / AGVs
 Machine vision & quality control
 Anomaly detection & performance optimization
 AI-empowered alarm systems

Edge AI for Mobility



Exemplary use cases:
 Automated driving
 External sound sensing *
 AI enhanced battery management system

* e.g. siren detection with ankle of arrival

Benefits: Reliable detection | Smart pattern recognition & interaction | Better performance | Extended lifetime | Increased safety | Enhanced user experience | Additional digital services

Infineon enables secured intelligence at the edge

– we are your partner for embedding AI within your devices

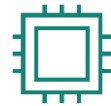


- Infineon provides **in-depth system understanding** across various industries
- **Optimized mix of hardware & software solutions** for every system



Full system understanding

- **Constant innovations in Audio, Video and HMI**
- **Reduced cost** through system approach



Leading edge MCU portfolio

- **Leading AI / ML enabled MCU** solution with the **PSOC™ Edge** family
- **Optimized portfolio** for edge AI systems



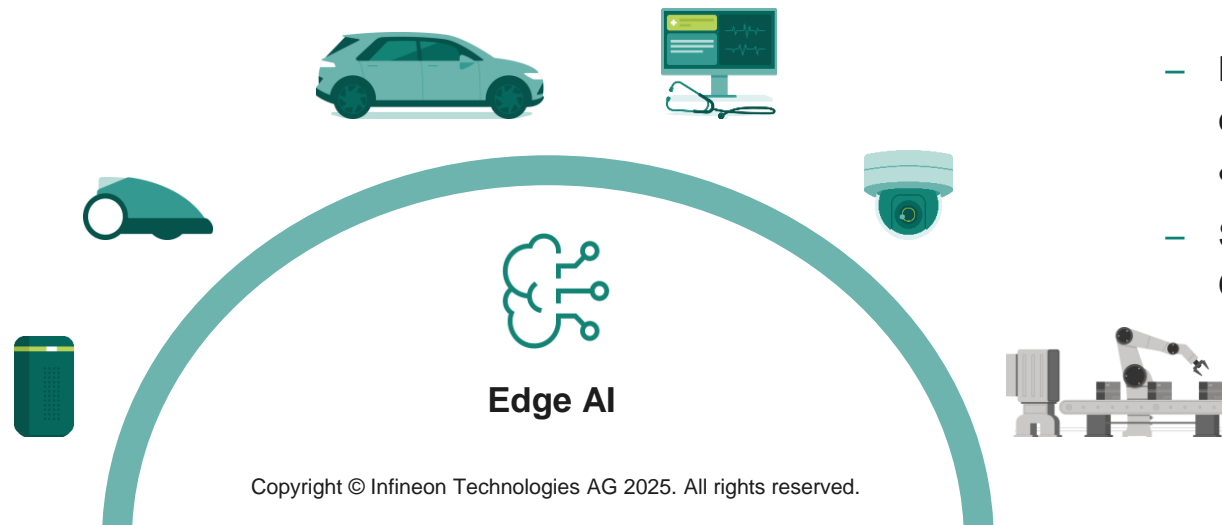
State of the art software & tools

- **Easy implementation** through broad ecosystem and own software tools
- **Infineon's new AI/ML Software brand DEEPCRAFT™** provides options spanning a state-of-the-art AI development platform to off-the-shelf AI models

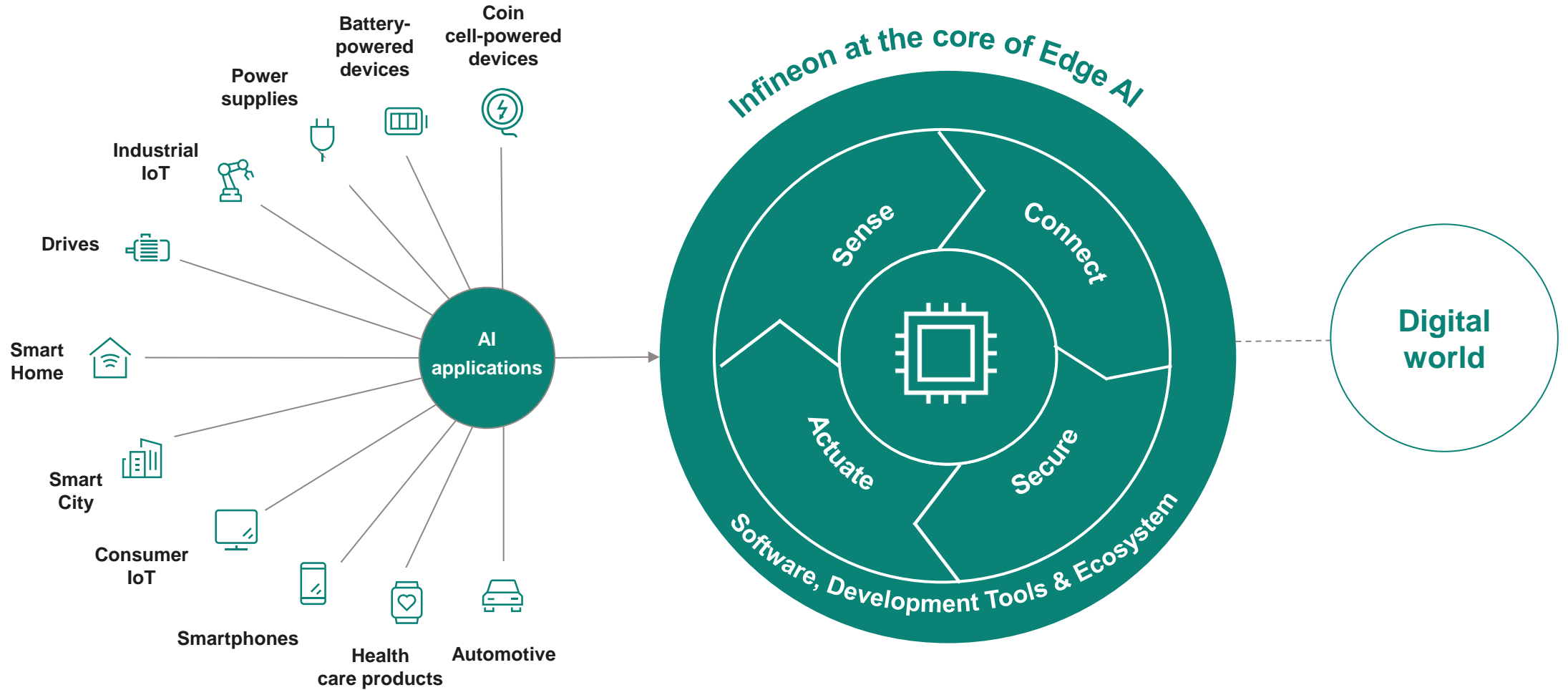


Right level of security

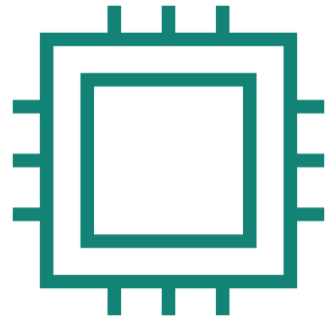
- **Leading security expertise** with comprehensive portfolio of MCU's & standalone trust anchors
- Supporting **EU CE marking and CRA requirements**



We are your Edge AI one-stop shop: choose right-fit Edge AI systems components from Infineon



Edge AI – it all starts with the right MCU – PSOC™ Edge enables responsive edge devices and allows new use-cases



AI / ML enabled
MCUs



up to 480x ML
performance
Boost



109x latency time
reduction



First MCU to
achieve PSA Level
4, its highest
security
certification level



90% energy
reduction

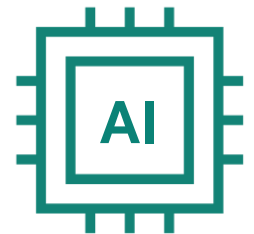
* Figures represented are based on comparison with previous Cortex-M4 cores

e.g. PSOC™ Edge
E81, E83, E84



- High performance & low power dual core compute
- Based upon Arm® Cortex®-M55 incl. Helium DSP paired with low-power Arm® Cortex®-M33
- Advanced AI via NPU and Infineon ultra-low power NNLite hardware accelerator

- More memory resources
- Enhanced security & privacy
- SoC integration
- Advanced Audio, Video, and HMI capabilities



With DEEPCRAFT™ Edge AI software, Infineon offers end-to-end technology solutions for your AI/ML market entry

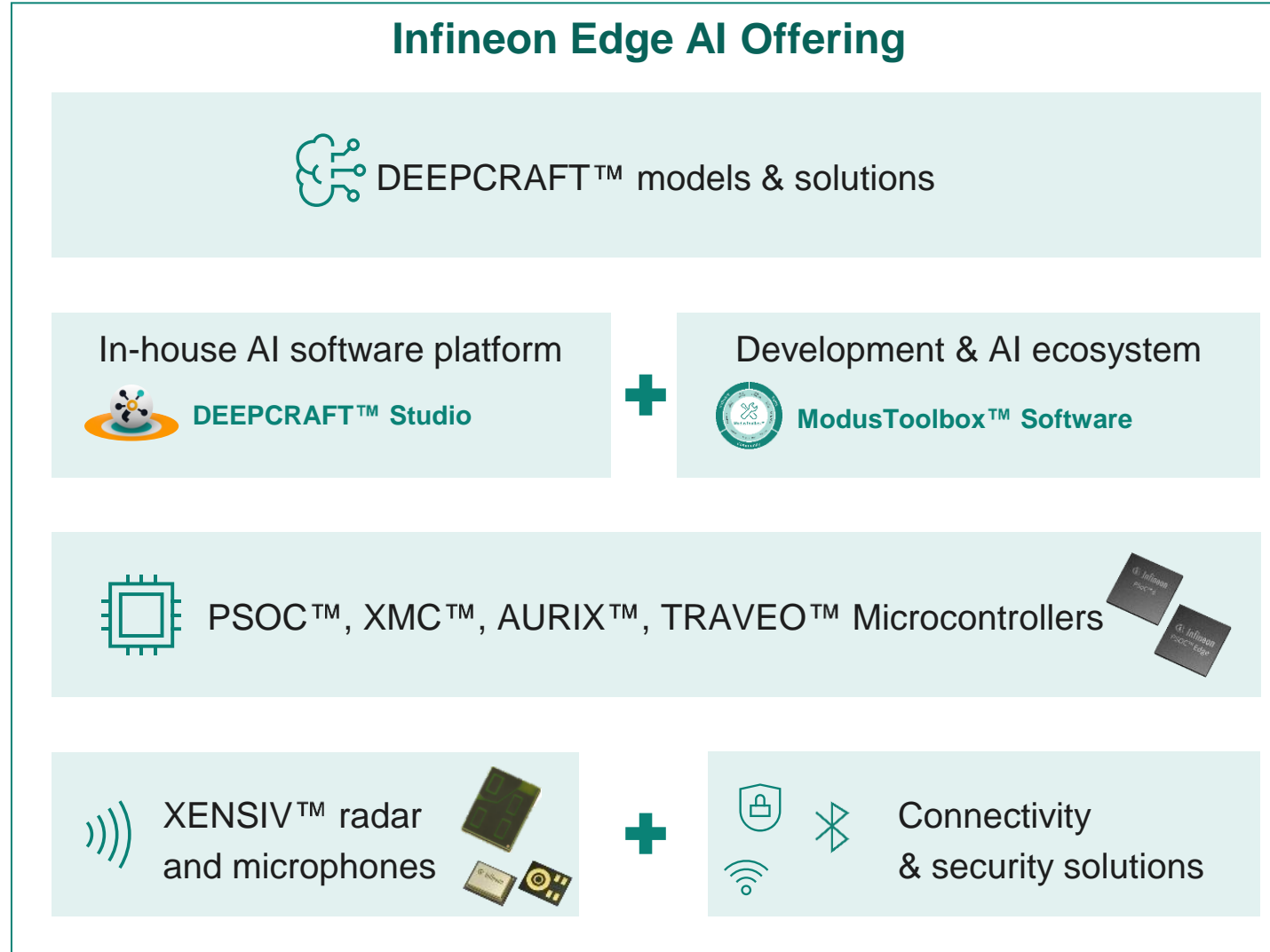


Our Capabilities

Edge AI models & capabilities for a wide variety of applications

End-to-end platform and software for easy training & deployment

The right hardware for your Edge AI model



Your Product



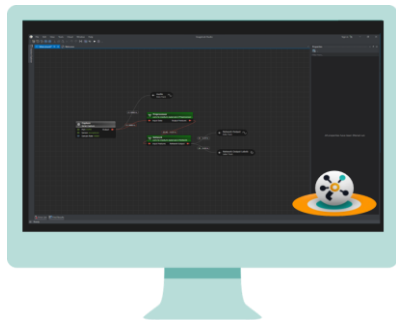
DEEPCRAFT™ Edge AI/ML Software enables easy integration into all designs and fast go-to-market



DEEPCRAFT™ products provide innovative, trustworthy, convenient and green AI software solutions for customers. With our DEEPCRAFT™ Studio and our portfolio of Edge AI models and solutions, Infineon offers end-to-end AI/ML and best-in-class system performance in combination with Infineon hardware.

DEEPCRAFT™ Studio

AI Development platform for data collection & pre-processing, model training, model conversion & deployment.



Models

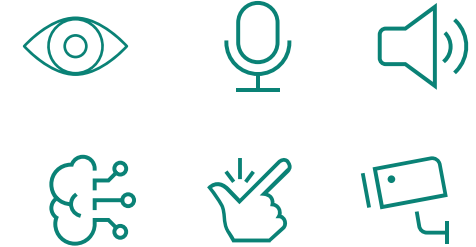
DEEPCRAFT™ Ready Models are trained and ready to deploy AI models adding specific capability immediately.

DEEPCRAFT™ Starter Models give developers a head start in creating custom AI models.



Solutions

Collection of high value tools and to add AI based capabilities in voice, audio, vision and sensing.



Let's get you ready for Edge AI – with Infineon

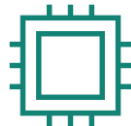
- ✓ Enable new use-cases with on device learning and connectivity independence
- ✓ Reduce energy consumption through reduced data-transfer and cloud usage
- ✓ Undisrupted user experience with real-time performance and reduced security risks

Take advantage of Infineon's outstanding Edge AI expertise

Unmatched edge AI system expertise



Right-fit edge AI MCU portfolio



Own AI software & broad ecosystem



Security Leader



Audio & Vision Innovations



