

AURIX™ Drive Core AI

A comprehensive software bundle including third-party tools and software components designed to simplify model-based development using the AURIX™ TC4x Parallel Processing Unit (PPU).

Version

1.0.0

Drive Core

Drive Core is a scalable software bundle portfolio for AURIX™, TRAVEO™ and PSOC™ that facilitates a rapid start into Automotive software development.

AURIX™ Drive Core AI

The AURIX™ Drive Core AI bundle integrates third-party tools and software components, enabling developers to efficiently evaluate the TC4x Parallel Processing Unit (PPU) – a high-performance computing platform tailored to the requirements of e-mobility and autonomous driving.

The Software bundle ensures an easy and fast setup of the model-based design flow with MATLAB Simulink and the AURIX™ Hardware support package (HSP), allowing developers to focus on system design rather than software development. Besides the required compiler tools and compute libraries the bundle also contains “ready to use” Simulink examples and a comprehensive tutorial.

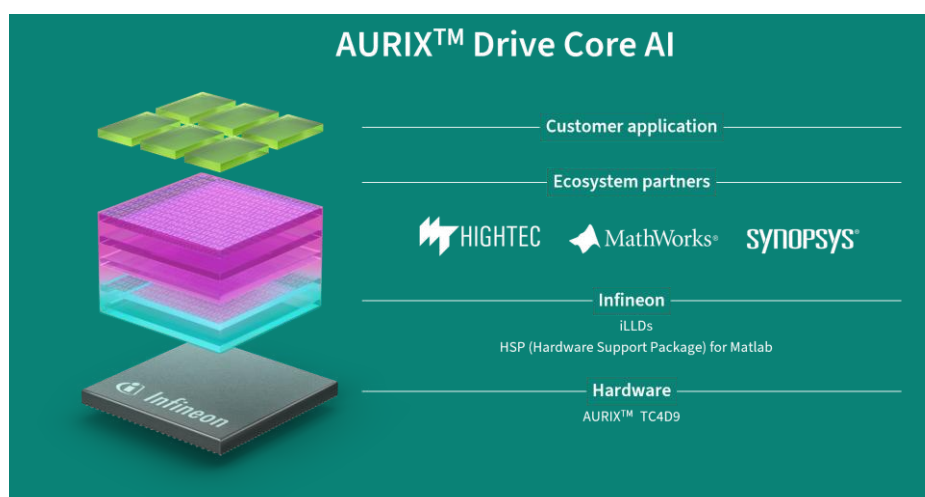
By leveraging the TC4x PPU's high-performance computing capabilities, developers can efficiently develop and deploy AI and ML applications for e-mobility and autonomous driving, while also meeting the stringent safety and security requirements of the automotive industry.

Key features

- **Integrated Build-System** for easy deployment and management of MBD
- **Optimized PPU compiler** and Speed Library for accelerated development & performance
- **Seamless integration** with Synopsys Metaware for AURIX™ processors & MathWorks

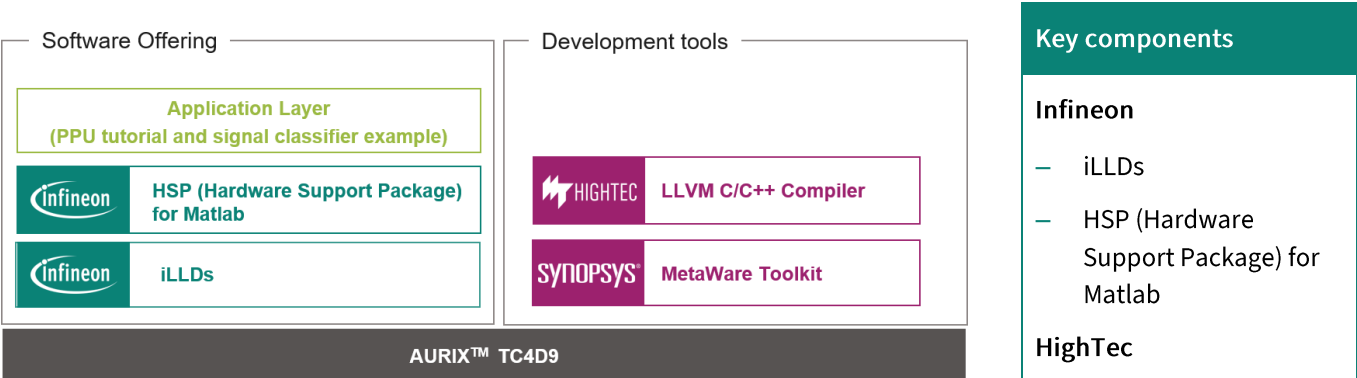
Key benefits

- **Streamlined development process** and reduced time-to-market
- **Improved productivity** and efficiency through optimized toolchain & deployment
- **Enhanced performance and reliability** of PPU-based computing via optimized compiler and library



PRODUCT BRIEF

Block Diagram



Key components

Infineon

- iLLDs
- HSP (Hardware Support Package) for Matlab

HighTec

- LLVM TC/C++ Compiler

Synopsys

- MetaWare Toolkit

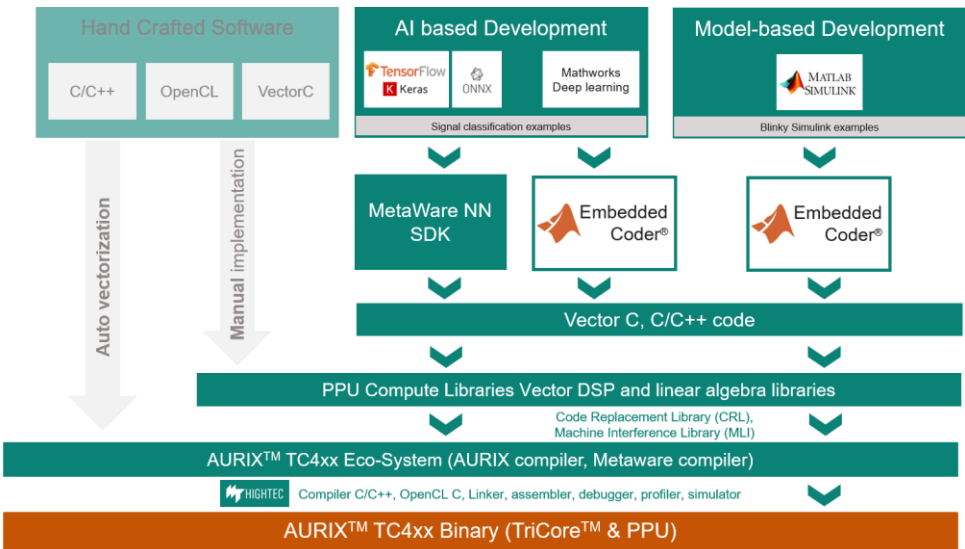
Supported Devices

KIT_TC4D9XP_COM_TRB

License scheme

3 months evaluation

Workflow



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