PRODUCT BRIEF

DRIVECORE™ TC4 IT2

DRIVECORE™ TC4 IT2 is a development platform built for automated driving, ADAS and robotics applications, bundled with Intron's OPEN-ECU™ Platform GDCU4xx Series Controller (Hardware platform) and a comprehensive software bundle that streamlines automotive application development on Infineon's AURIX™ microcontroller family. The platform accelerates development, shortens time-to-market and is well suited for evaluation, proof-of-concept and demonstrations requiring compliance with ASIL D.

Intron's OPEN-ECU™ Platform GDCU4xx Series Controller adopts AURIX™ TC4D9 as its safety MCU and pairs it with mainstream high-performance SoC(s), forming a powerful heterogeneous computing platform purpose-built for automated driving, ADAS and robotics applications. The AURIX™ TC4D9, built on the field-proven TriCore™ architecture (the de-facto processor for modern automotive systems) delivers robust safety processing, deterministic real-time control, and hardware-enforced isolation, making it the ideal safety supervisor alongside the high-performance SoCs.



GDCU4xx Series Controller supports a full range of intelligent-driving sensors, including LiDAR, mmWave radar, ultrasonic radar, and camera, with embedded extensive communication and video interfaces, plus a multi-band high-precision GNSS and an IMU — enabling end-to-end development for sensor fusion and perception pipelines.

The software bundle for TC4D9 MCU includes AURIX™ TC4x MC-ISAR AUTOSAR MCAL drivers, Vector MICROSAR Classic along with DaVinci Configurator, and TASKING C/C++ compiler.

Instant tooling is guaranteed by TASKING's latest certified TC4Dx Tool Chain SmartCode and winIDEA, which includes the PPU Runtime Environment library, providing a dedicated mechanism for high-efficiency data exchange between the TriCore™ cores and the PPU embedded in AURIX™ TC4D9. This allows developers to fully exploit the parallel processing architecture of the TC4D9 without deep architectural expertise.

Key features

- **Integrated AURIX™ TC4D9 and high-performance SoCs:** Development Platform for Automotive, especially for Automated Driving
- **Interfaces support full range of intelligent-driving sensors**
- **Infineon's MCAL Driver:** Standardized interface to the AURIX™ microcontroller
- **MICROSAR Classic:** Pre-integrated real-time capable base software stack
- **TASKING SmartCode:** C/C++ Compiler Tool Chain for TriCore™ and PPU

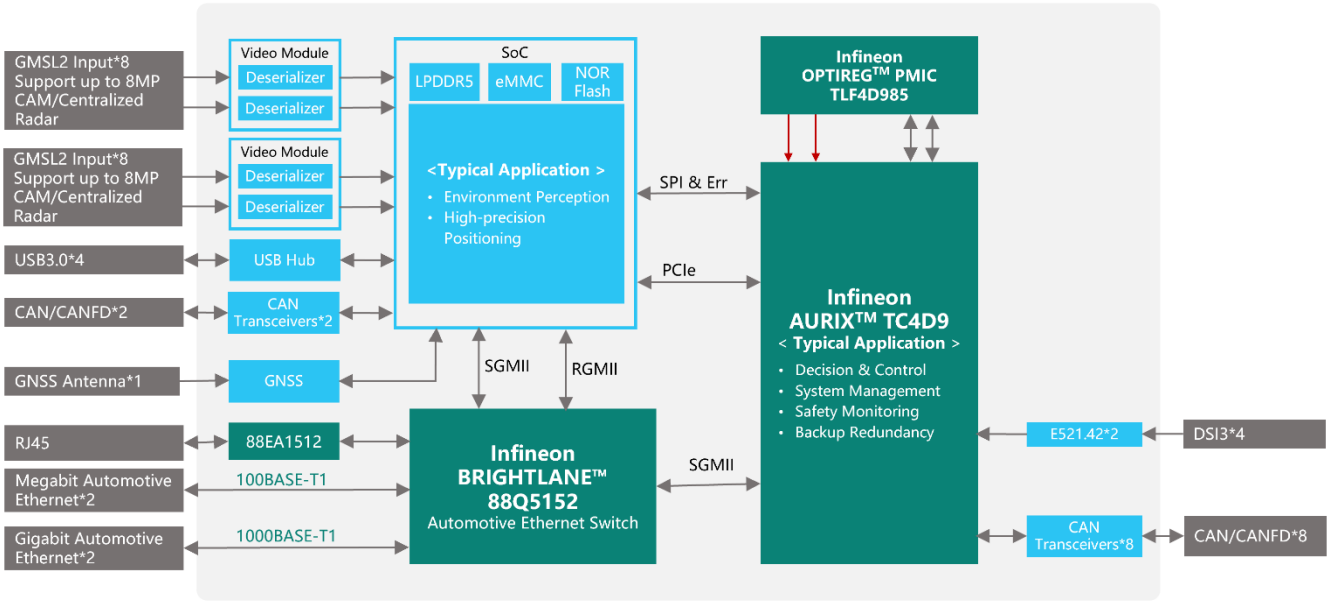
Key benefits

- **Streamlined Development:** Reduces development time and costs
- **Improved Reliability:** Ensures reliable functionality in safety-critical domains
- **Increased Productivity:** Provides a head start for developers

With the entire hardware, safety MCU, High-performance SoCs, AUTOSAR software stack, and toolchain pre-integrated and validated, developers can focus entirely on application innovation, reducing time-to-market while maintaining the highest standards of functional safety and automotive-grade reliability.

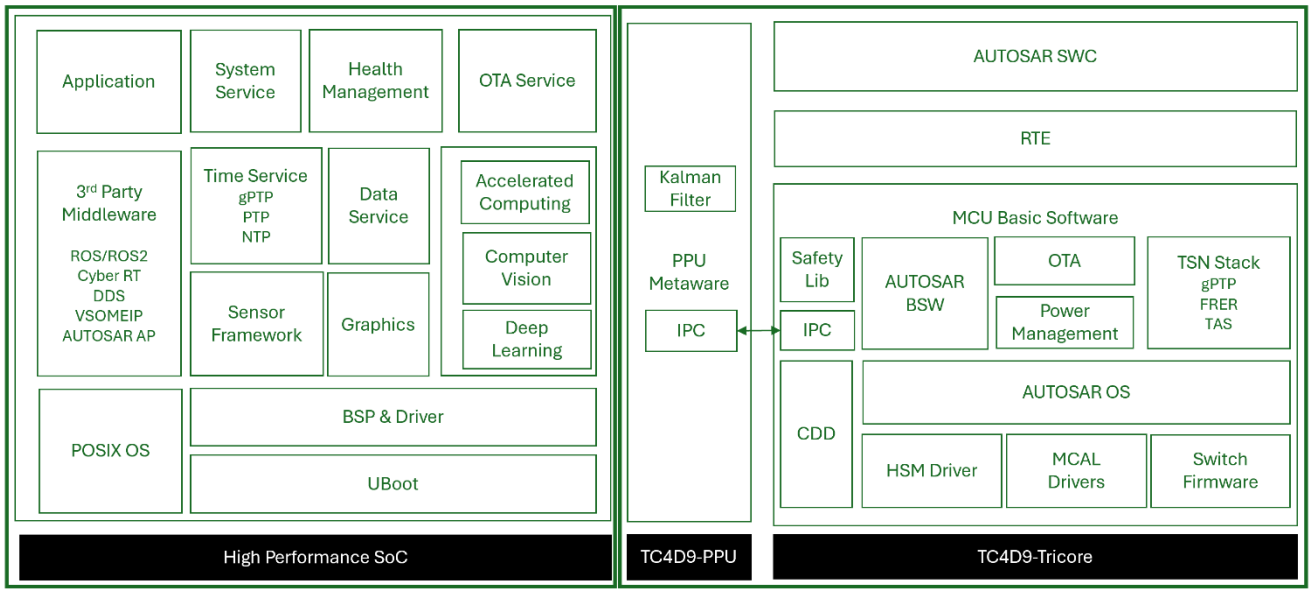
License scheme
3 months free evaluation

Block Diagram – Hardware



Note: The BRIGHTLANE™ Ethernet Switch is available for certain models in the OPEN-ECU™ GDCU4xx series.

Block Diagram – Software Bundle



Key components

Infineon	– AUTOSAR MCAL Drivers (MC-ISAR AURIX™ for TC4x)
intron 英恒	– OPEN-ECU™ Platform GDCU4xx Series Controller
TASKING	– TC4x Tool Chain – Compiler: SmartCode C/C++ Compiler Tool Chain for Tricore™ and PPU – Debugger: winIDEA – TASKING TriCore™-PPU Runtime Library
VECTOR	– BSW: MICROSAR Classic – Tooling: DaVinci

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