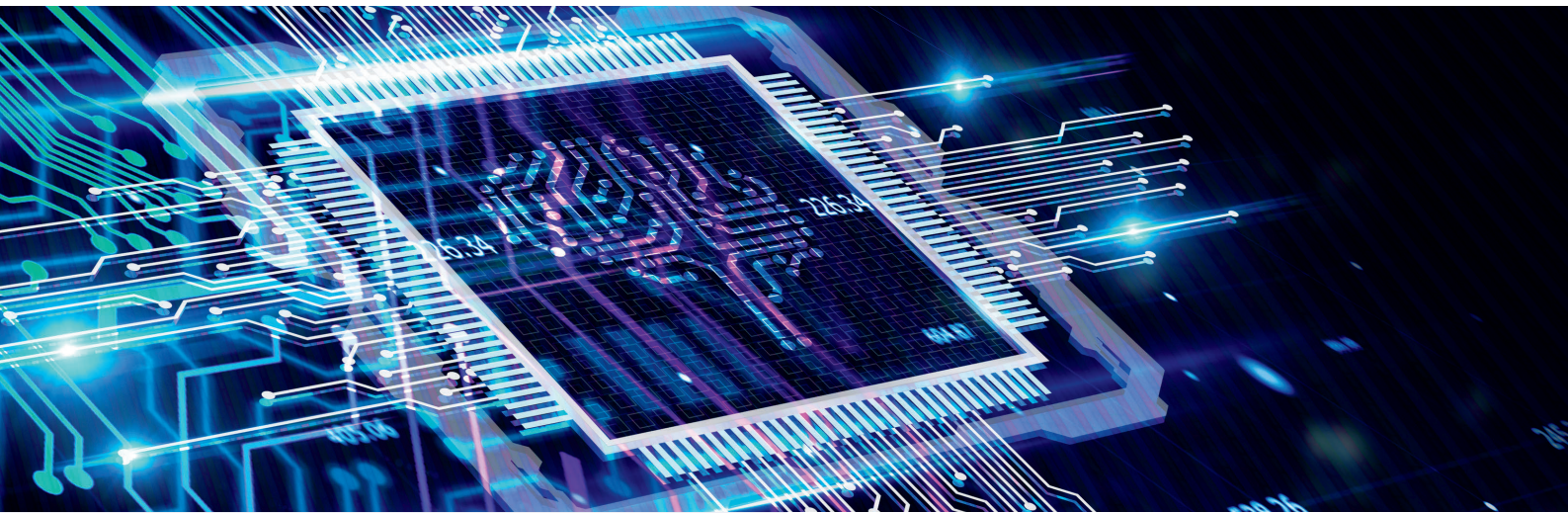# BUILD SAFETY COMPLIANT MULTI-CORE SYSTEMS USING C/C++ & RUST PLATFORMS AND PXROS-HR

Achieve Industrial and Automotive Safety compliance by using the HighTec Development Platform with the Qualification Kit (Qkit) and PXROS-HR, a Safety certified multi-core operating system.

DEVELOPMENT PLATFORM & QKIT

- Multi-architecture and multi-core C/C++ & RUST development platforms, with leading optimization technology.

- Supports leading Microcontrollers for Industrial and Automotive applications (Tricore/AURIX™, Power Architecture, ARM and RH850).

- The Tool Qualification Kit (Qkit) enables users to perform Safety standards qualification in a simple and an easy way.

PXROS-HR

- Safety multi-core Real Time Operating System (RTOS), certified up to ASIL D (ISO 26262) and SIL 3 (IEC 61508).

- RTOS used in Industrial and Automotive applications thanks to its unique features, such as encapsulation which guarantees freedom of interference, ensuring system reliability and robustness in single and multi-core systems.

- The optimized micro kernel avoids latency and interrupt locks, thus allowing instantaneous ISR service.

EFFICIENCY

The combination of the in-depth knowledge of HighTec tools, software and specific engineering capabilities in the field of Functional Safety have a multiplicative value in the efficiency of product development.

TIME-TO-MARKET

Time-to-market reduction is the common goal of Bluewind and HighTec: using tools and a skilled team that simplify Safety and Cybersecurity development process.

RUST (!!NEW!!)

Rust is the newest improvement in the development of intrinsically safe and secure systems. It prevents any memory vulnerabilities, supports concurrency, parallel programming and interoperability with C/C++.

QKIT SUPPORTED QUALIFICATION STANDARDS

ISO 26262 ASIL	A	B	C	D

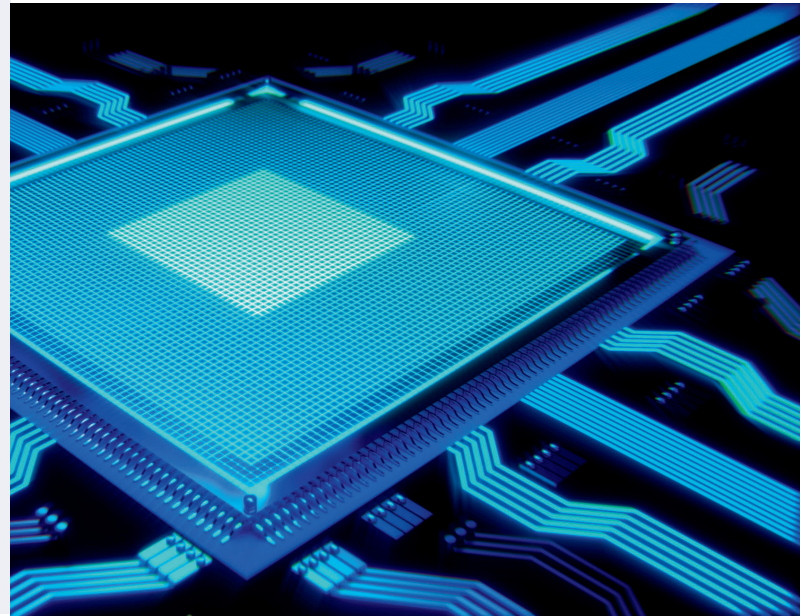| ISO 61508 SIL	1	2	3	4

ISO 50128 SIL	1	2	3	4

BLUEWIND & HIGHTEC PARTNERSHIP

Bluewind is an official distributor of HighTec EDV Systeme that serves as an engineering partner for Safety related and Cybersecurity development in the Industrial and the Automotive sectors.

Bluewind expertise include:

- Qualified technical support for HighTec products.
- Basic & advanced training.
- Integration of PXROS-HR in Industrial and Automotive systems.
- Full engineering services for Safety and Cybersecurity design processes.