



SAFe-VX

Turnkey-Ready Development Platform

- Modular Hardware Design
- Redundant Configuration
- No single Point of Failure
- COTS Hardware
- SIL-ready certifiable Architecture (SIL 2/3/4)
- Hard Real-Time OS with Hypervisor Functionality
- First SIL 4 certified Hypervisor on Multi-Core
- Mixed Criticality
- Application Safety Library
- Eclipse-based IDE



Partitioning critical and non-critical application code in independent time and memory spaces

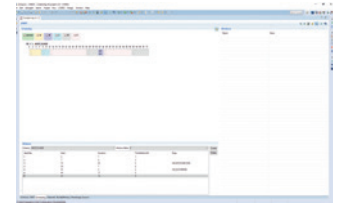
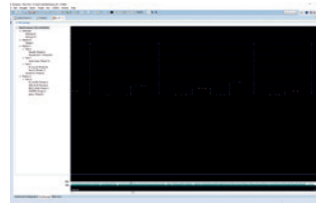
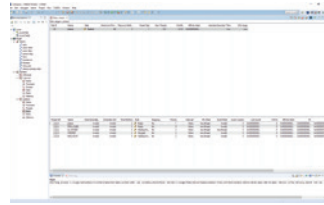
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SAFe-VX

Turnkey-Ready Development Platform

SAFe-VX is a turnkey-ready developing suite, providing fully representative hardware and a complete toolchain for software development, which is integrated into the Eclipse-based IDE CODEO. The integrated development environment provides all the components that software engineers need to develop embedded applications and includes comprehensive little helpers to finish embedded projects in a time-saving and cost-efficient way.



Standard Components

- Eclipse-based Integrated Development Environment (IDE)
- Project Setup Wizard
- Graphical configuration tools
- Graphical remote debugging, down to hardware level
- Remote application deployment

Dynamic System Analysis

- Application and kernel tracing
- Optional light weight tracing for less impact on performance
- User-defined trace events
- Triggers and event filters
- Event search

Static System Analysis & Control

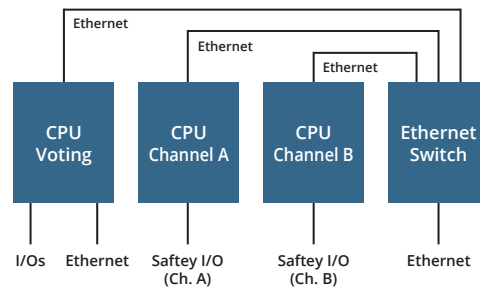
- Static system analysis & more
- Remote system explorer
- PikeOS monitor
- Partition control

Additional Features

- Health monitor
- Hardware emulation

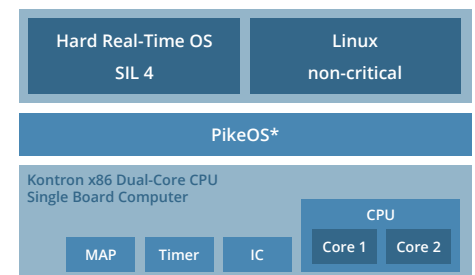
SAFe-VX Architecture

Hardware Architecture



The base configuration is redundant, including three VPX processor modules, interconnected by a Gigabit Ethernet switch module through a backplane. SAFe-VX does not present any single point of failure.

Software Architecture



* PikeOS Separation Kernel & System Software

PikeOS hypervisor, certified hard RTOS, partitioning critical and non-critical application code in independent time and memory spaces.

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Founded in 1991, SYSGO became a trusted advisor for Embedded Operating Systems and is the European leader in hypervisor-based OS technology offering worldwide product life cycle support. We are well positioned to meet customer needs in all industries and offer tailor-made solutions with highest expectations in Safety & Security.

More information at www.sysgo.com/railway