

# SYS TEC electronic GmbH

## Company Introduction



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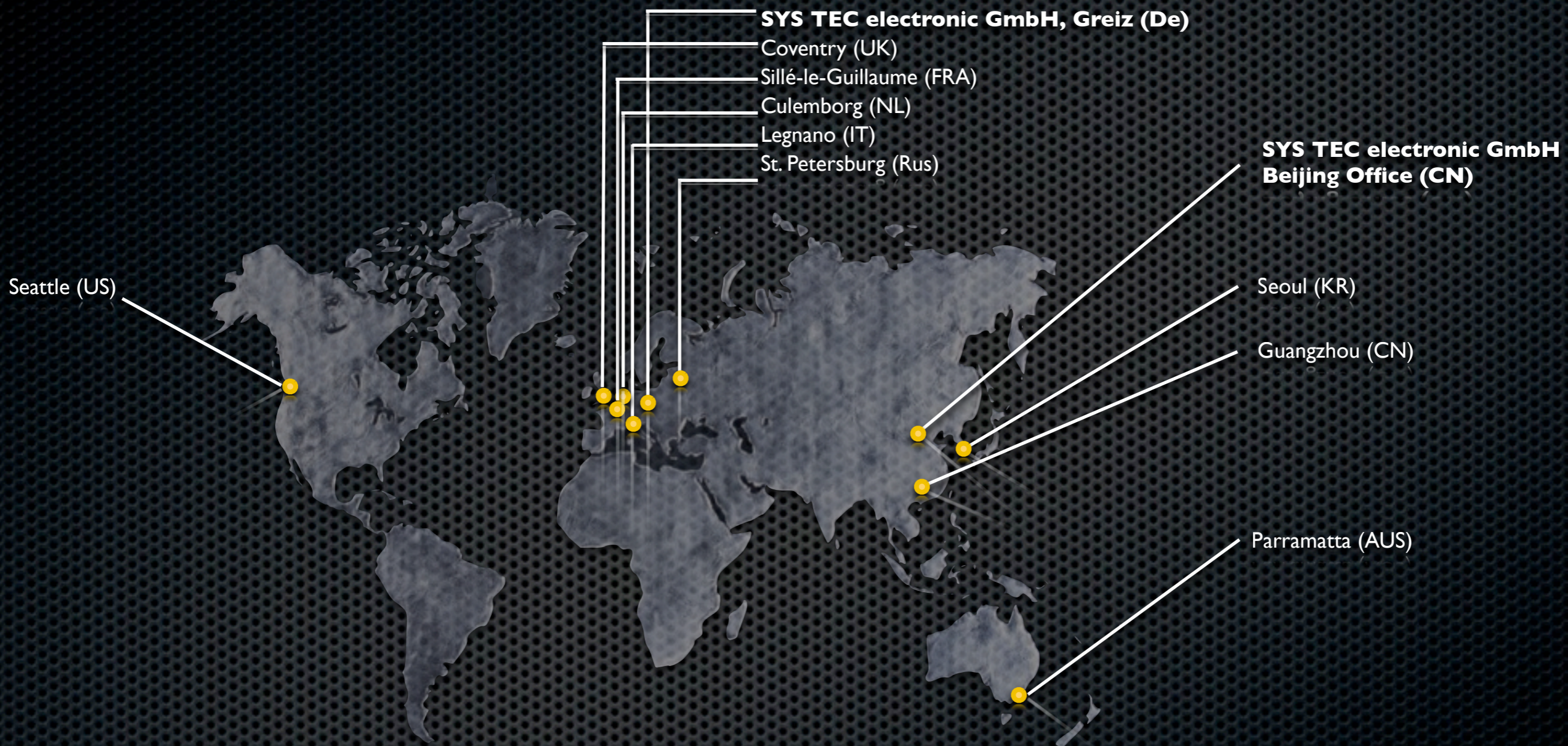
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# Who we are ...

- Solution provider for embedded system development and industrial communication
- Highly experienced in-house development and prototyping
- Production facility with own procurement and logistics
- In China since 2005 - Localized technical support
- Founded 1990, 2011: >6M € Revenue, 50 Employees with 50% Engineers
- ISO 9001:2008 certified development and production







# OEM/ODM Services

- ✦ Consulting and project specifications
- ✦ Hardware and software development
- ✦ Prototyping, test and validation
- ✦ Electronic Manufacturing Services;  
from low-quantity to high-volume production
- ✦ System integration services





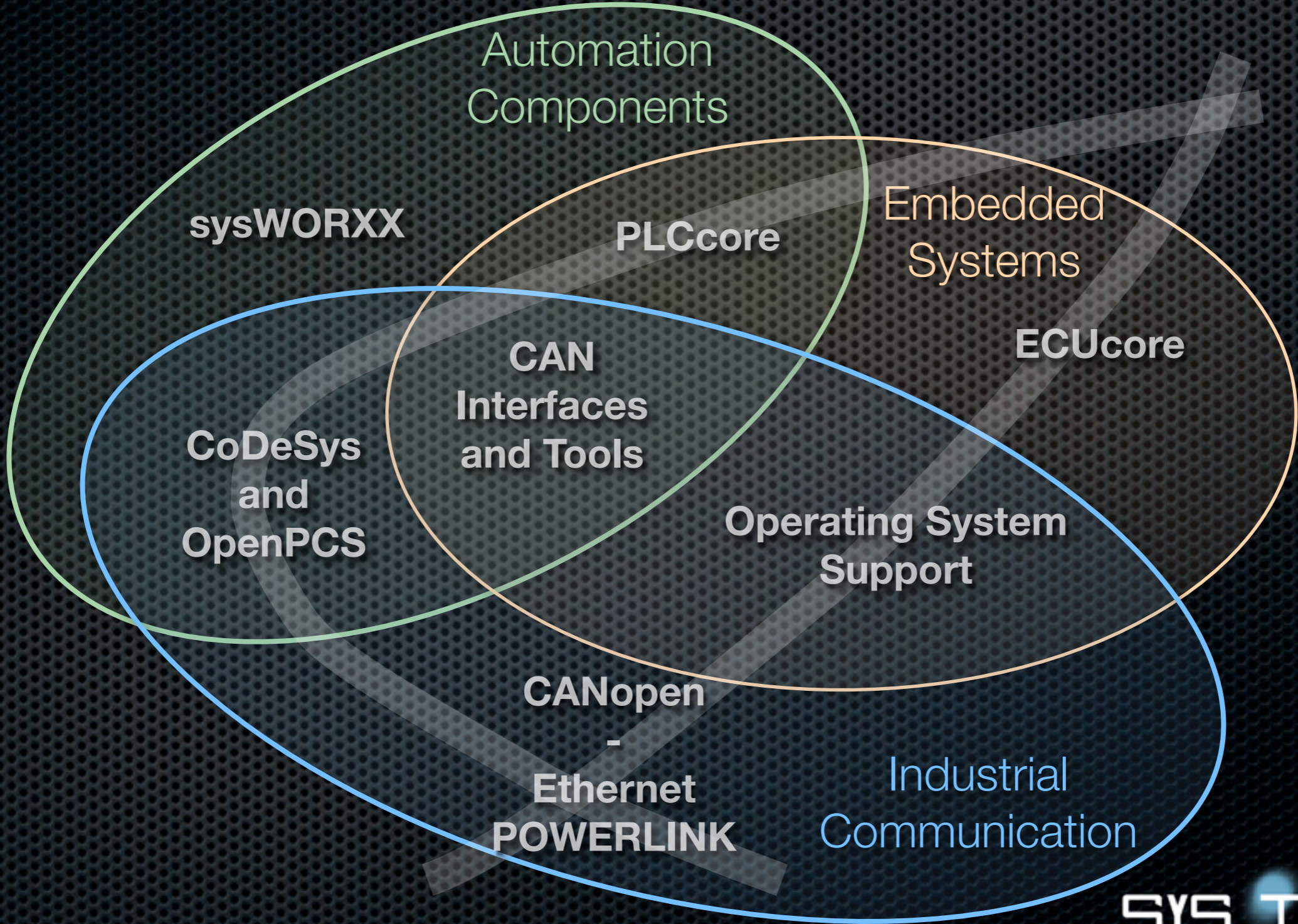
# Technologies

- ✦ CAN/CANopen
- ✦ Ethernet POWERLINK
- ✦ IEC 61131 Automation Components
- ✦ 16 and 32-bit System On Modules
- ✦ Safety systems (IEC 61508, EN ISO 13849, 2006/42/EG)
- ✦ Railway Systems (EN 50155)
- ✦ Motion control





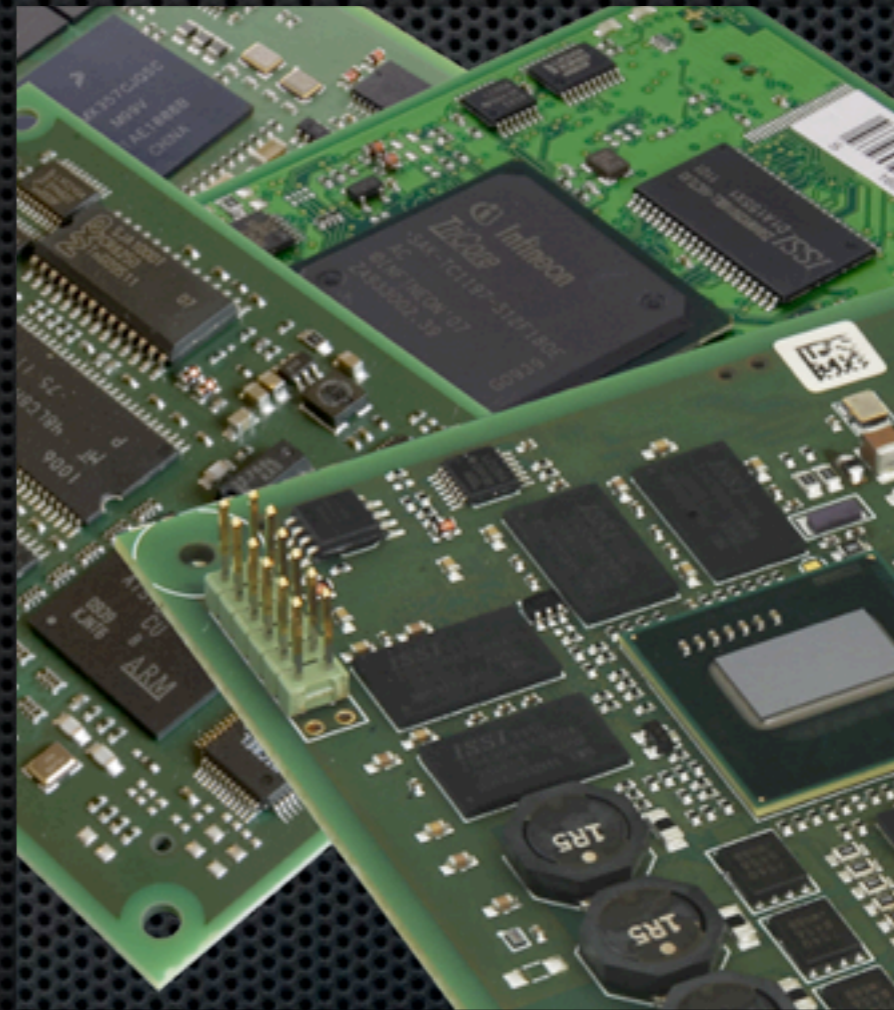
# Product Spectrum





# ECUcore Modules

- ✦ Application-proven in customer projects
- ✦ Integrated bootloader and operating system
- ✦ IDE and BSP provided by SYS TEC



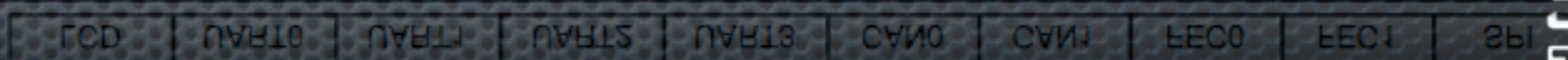
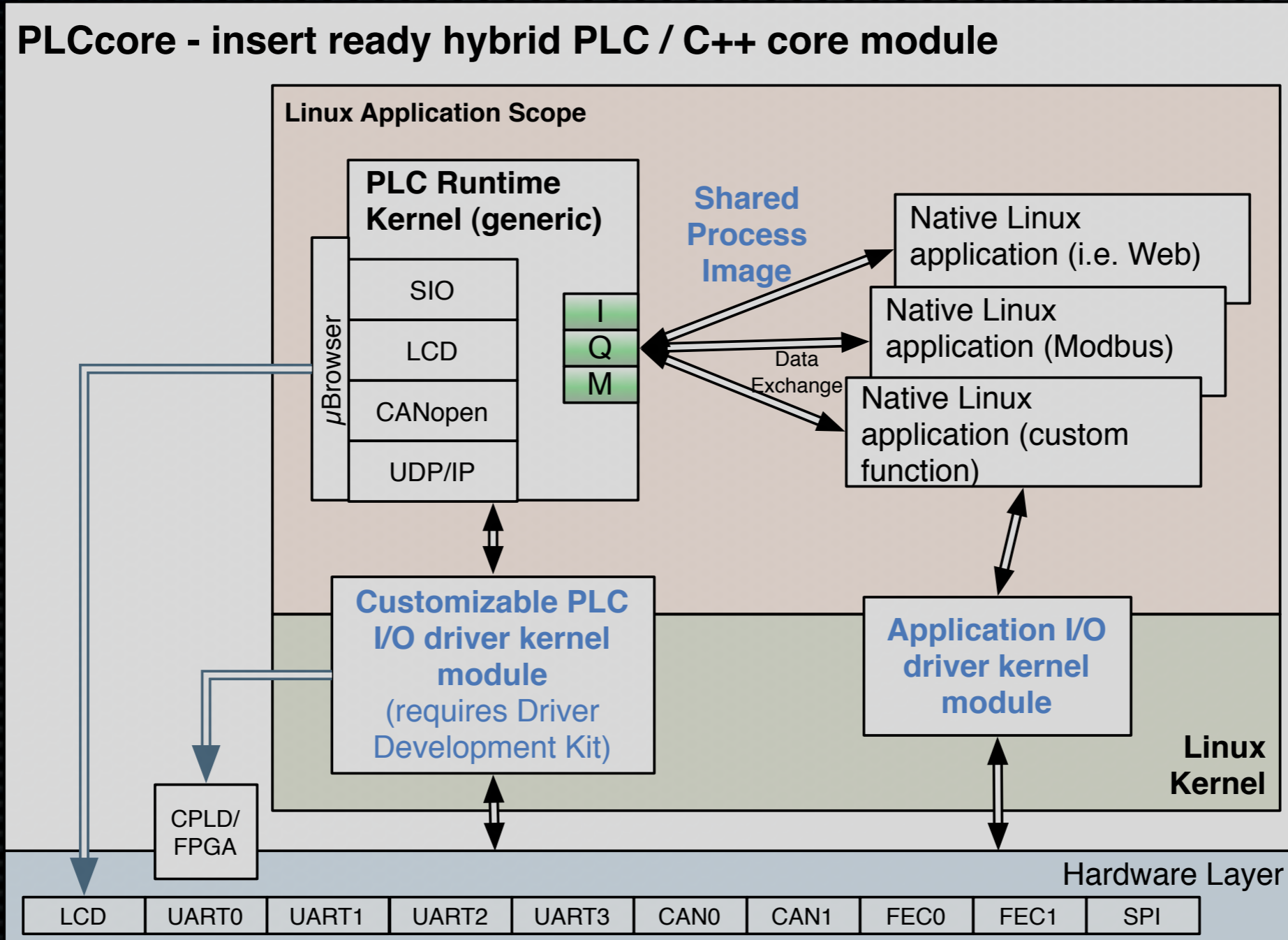


# Available Platforms

- Freescale MCF5484  
Linux, eCos, OpenPCS
- Freescale MCF5208  
µCLinux, eCos, OpenPCS
- Freescale i.MX357  
Linux, OpenPCS,  
Spidercontrol, CoDeSys
- Intel Atom E660  
Linux, OpenPCS, Spidercontrol
- Infineon TriCore 1197  
OpenPCS, PxROS
- Infineon TriCore 1130  
OpenPCS, PxROS
- Atmel AT91SAM9G20  
Linux, OpenPCS
- Atmel AT91SAM9263  
Linux, OpenPCS, Spidercontrol
- Altera EP3C (FPGA)  
Nios II Soft CPU, openHUB,  
openMAC

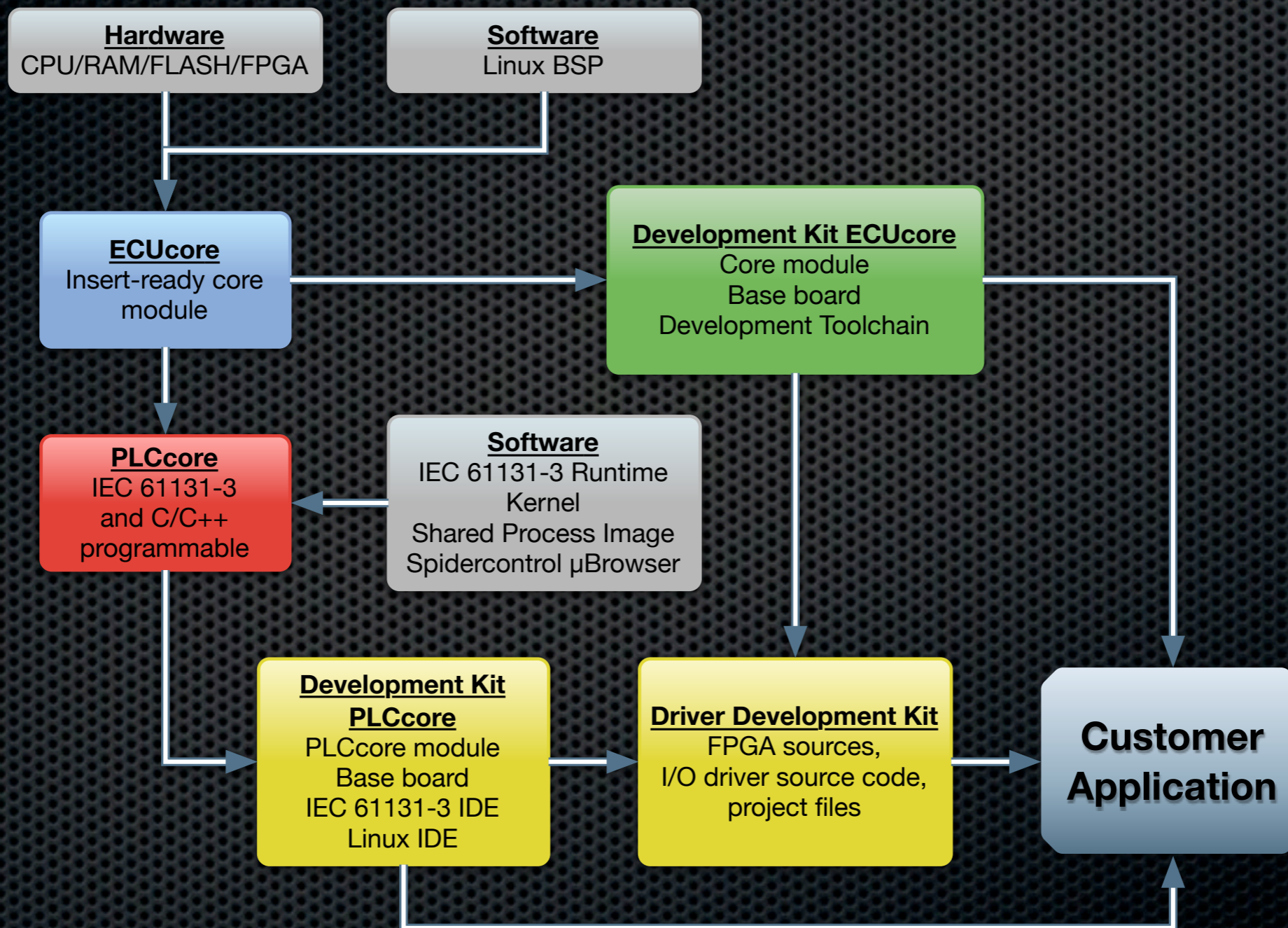


# PLCcore Concept





# Related Products





# sysWORXX Series

- ✦ 32-bit controller, user-programmable in IEC 61131-3 and C/C++ programmable, CANopen and Ethernet
- ✦ CANopen remote I/O devices
- ✦ IEC 61131-3 and C/C++ IDE from SYS TEC





# Available Modules

- ✦ IO-X1 (16DI, 8DO)
- ✦ IO-X2 (24DI)
- ✦ IO-X3 (24DO)
- ✦ IO-X4 (8AI U/I)
- ✦ IO-X5 (8 AI Res)
- ✦ IO-X6 (8AO U/I)
- ✦ IO-X7 (8AI TC)
- ✦ PLCmodule-C32  
32-bit CPU, Linux based,  
IEC 61131-3 and C/C++  
programmable
- ✦ PLCmodule-C14  
16-bit CPU, IEC 61131-3  
programmable



# Software Support

- CANopen Configuration Suite for CANopen-based system integration
- CAN-REport - CAN-bus monitor with CANopen plug-in
- OpenPCS, IEC 61131-3 IDE
- Eclipse based C/C++ IDE and Linux BSP in VMware box



# CAN-Bus Interfaces

- ✦ Best price-performance ratio on the market
- ✦ 1/2/8/16 channel USB/CAN interfaces
- ✦ 1/2 channel CAN/Ethernet interface
- ✦ Virtual CAN Network PC driver for up to 64 channels





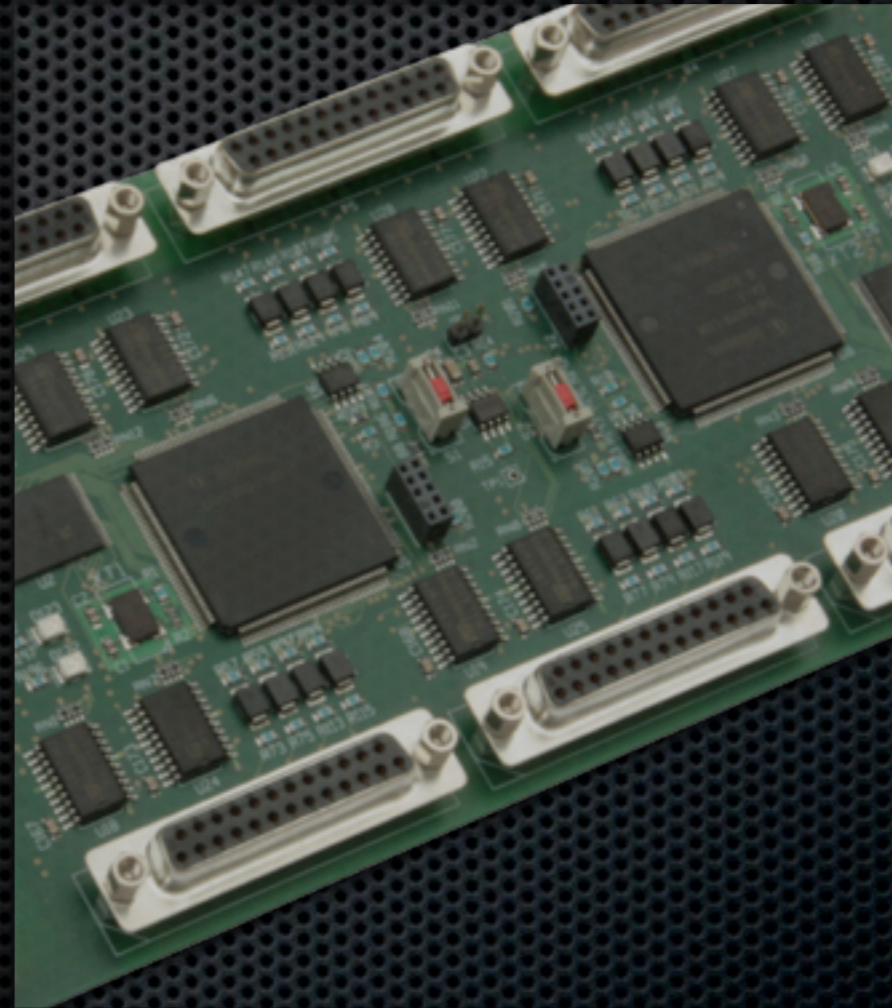
# Target Markets

- ✦ Rolling Stocks and Transportation
- ✦ Medical Devices
- ✦ Automated Test Equipment
- ✦ Building Automation
- ✦ Rugged Mobile Off-road, Engineering and Construction Machinery



# Process Safety

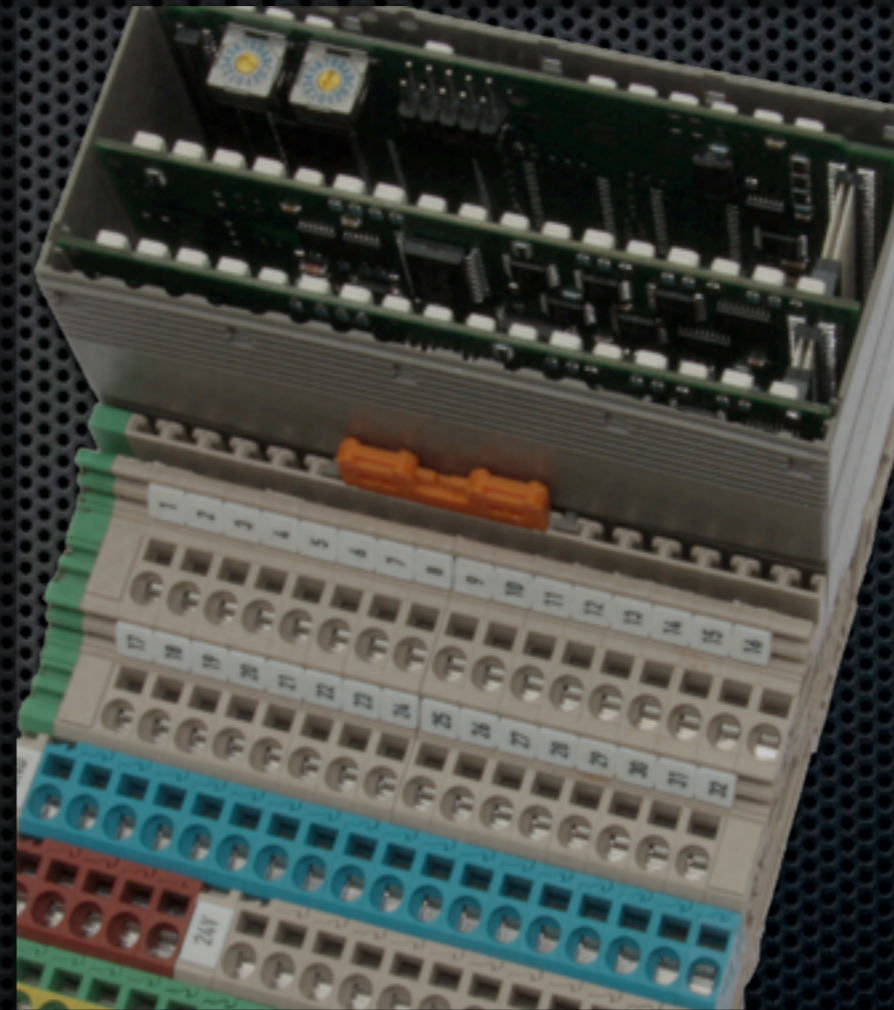
Network linked emergency stop units based on CANopen Safety (SIL 2). The redundant hardware and safety-relevant software design were certified by BIA. Design and serial production at SYS TEC facilities.





# Process Safety

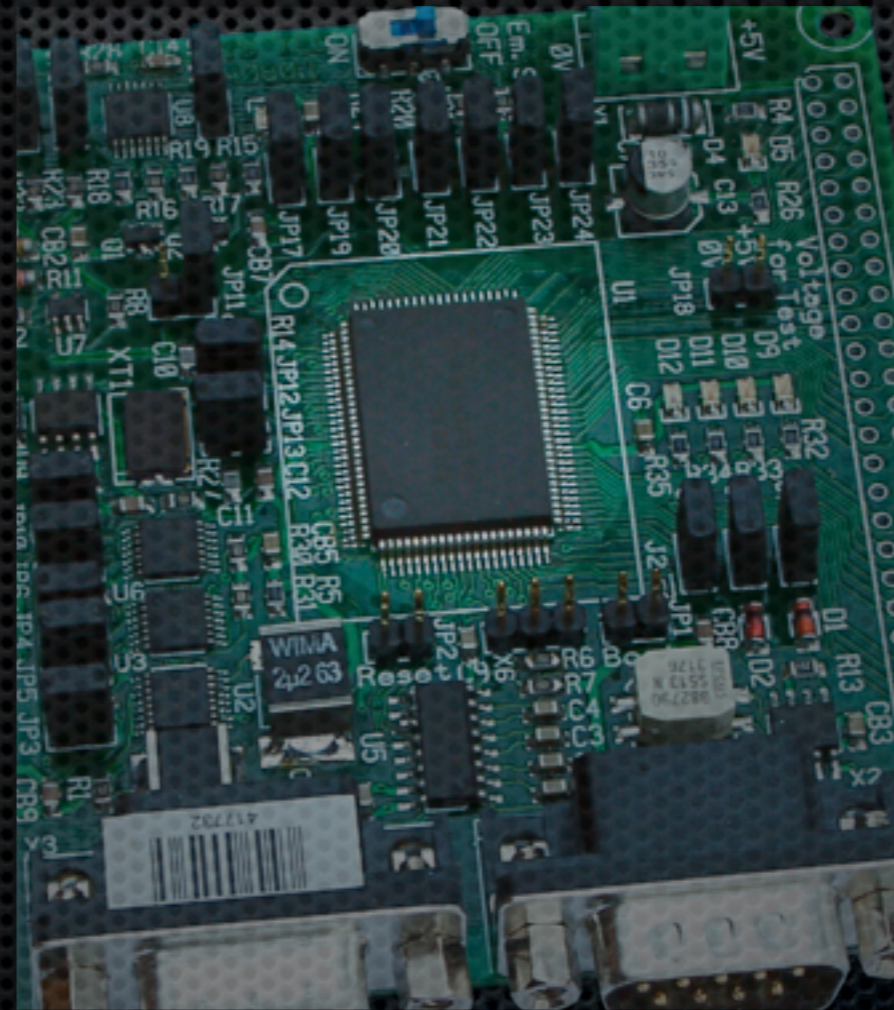
Low latency real-time controller for spark detection and extinguishing based on IEC 61131-3 and CANopen technology provided by. Design and serial production at SYS TEC facilities.





# Single-chip safety controller

CANopen Safety Chip  
designed for CiA. A single  
chip safety hardware  
solution. Variable user  
application. IEC 61508 pre-  
certified for use in SIL3  
applications.





# Railway

19" 3HU Train Communication System with CPU module based ECUcore-E660, I/O module and Power Supply Unit. Development and volume production at SYS TEC.





# Railway

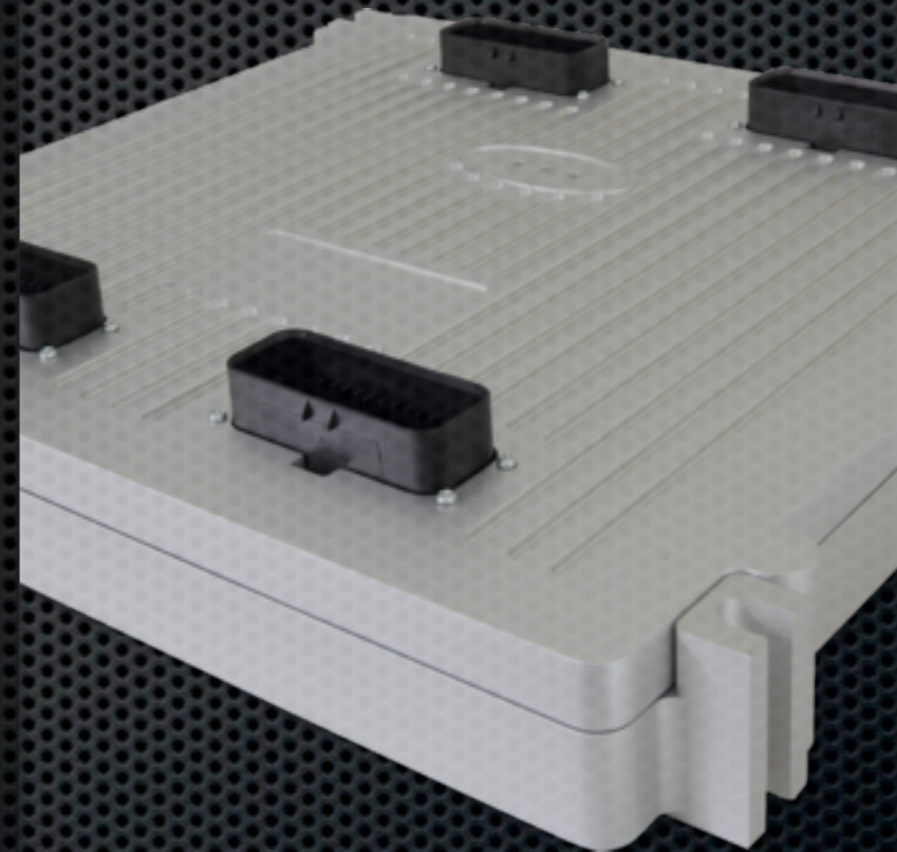
Infineon TriCore 1130 based  
ECUcore-1130 applied on a  
custom tailored control unit.  
Hardware design and volume  
production at SYS TEC.





# Mobile Machinery

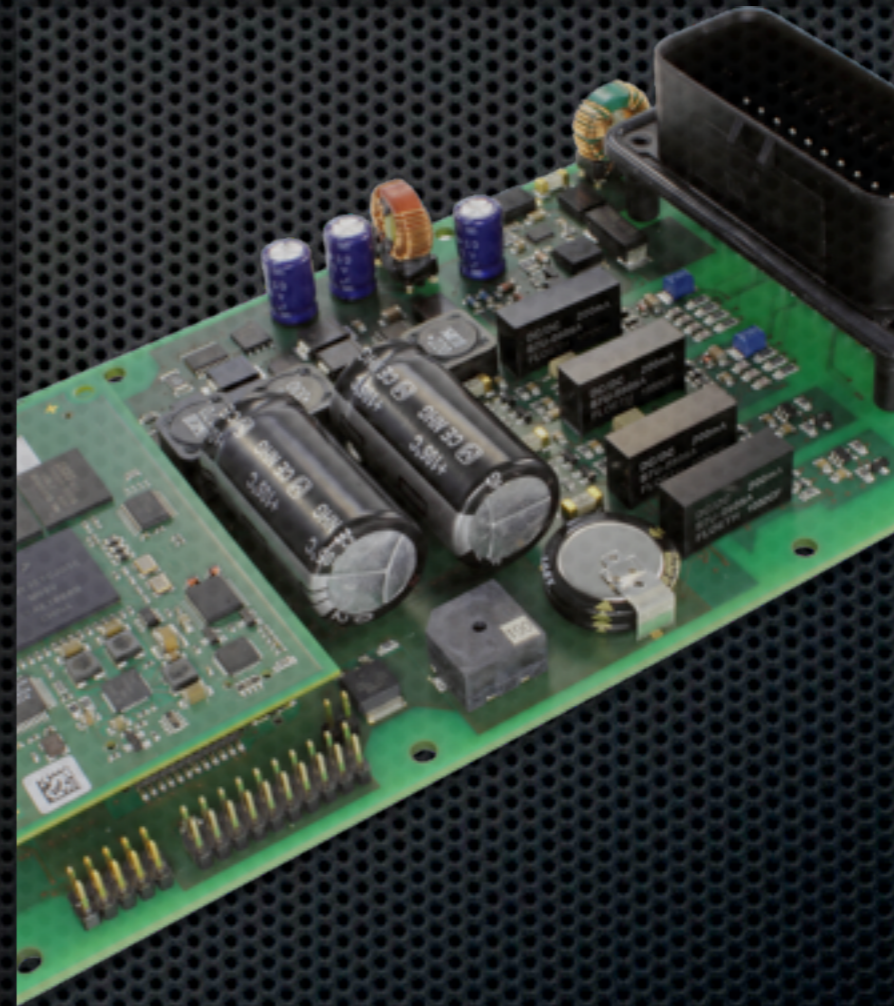
Ruggedized IP65 control unit  
based on ECUcore-1197  
SOM. Extremely high I/O  
density and flexibility. Design  
and volume production at  
SYS TEC.





# Mobile Machinery

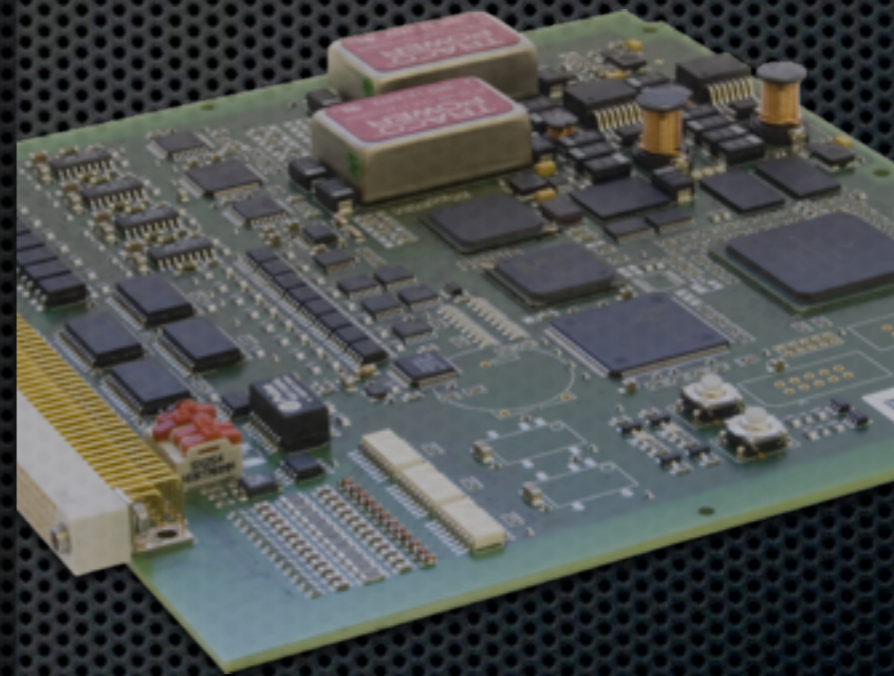
Ruggedized IP65 HMI unit  
based on ECUcore-iMX35.  
OpenPCS with Spidercontrol  
target visualization. Design  
and volume production at  
SYS TEC.





# Rugged mobile controller

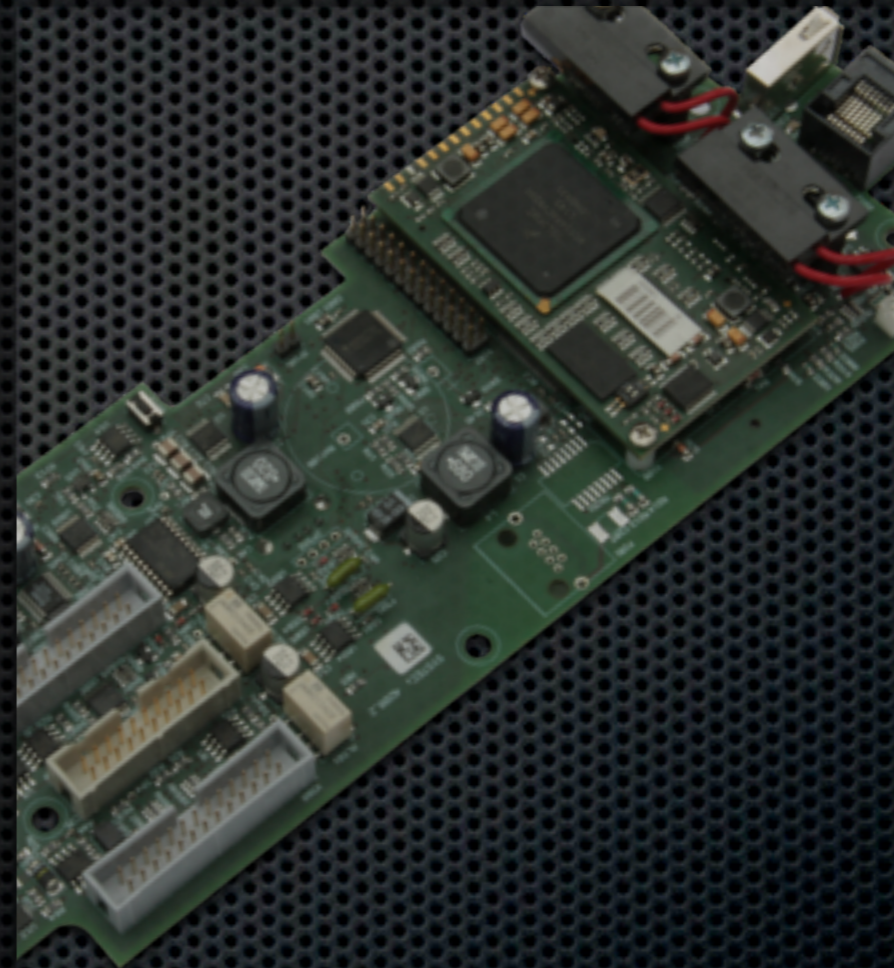
Ruggedized high-performance motion control unit based on a 4-core multi-CPU design. Development and serial production at SYS TEC facilities.





# Medical Equipment

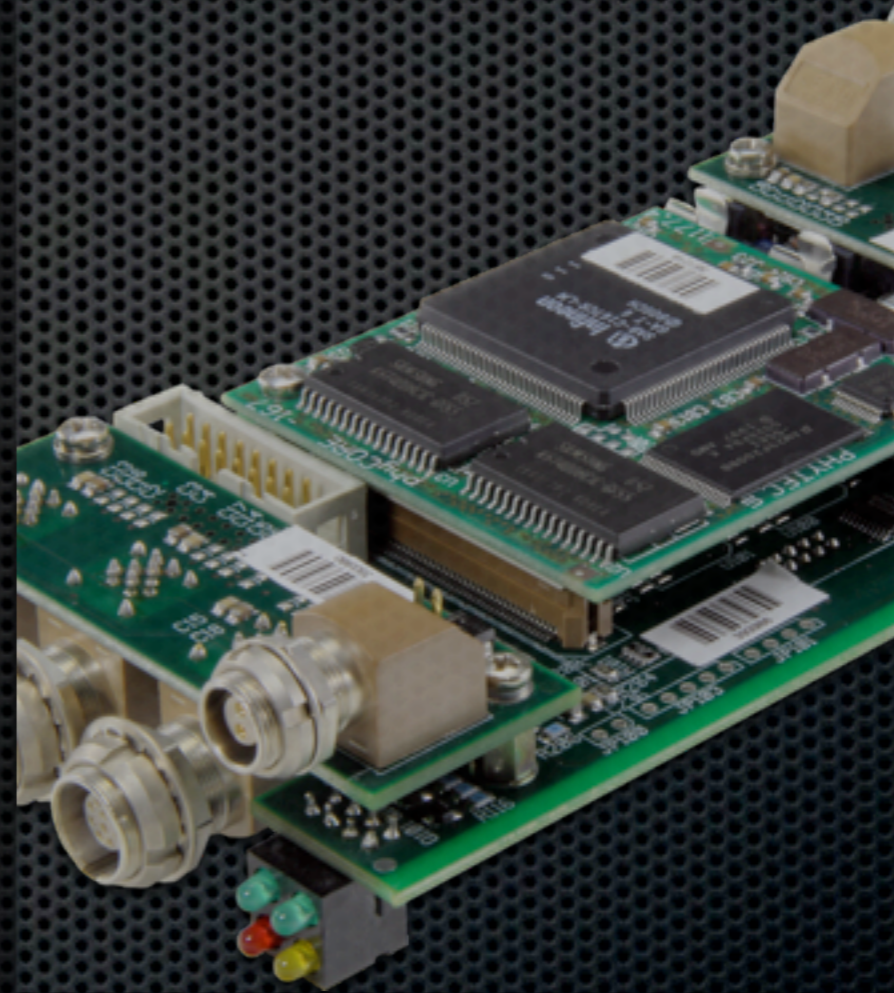
Custom tailored  
communication gateway  
based on ECUcore-5484  
design. Design and serial  
production at SYS TEC  
facilities.





# Mobile devices

Mobile data logger for posture measurement with focus on low power consumption and robust hardware design.  
Design and serial production at SYS TEC facilities.





Thank you.

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ELECTRONIC