

# AURIX™ Preferred Design House

Hitex Development Tools GmbH  
Hitex (UK) Ltd.

# Company Profile

- Founded in **1976**
- **38 years of experience** in microcontroller technology
- Part of the **Infineon Group** since 2003
- **Leading Provider** of
  - Development- and software quality tools
  - Services
  - Middleware and safety software
- Experts in the field of **Functional Safety**
- **Security** and **Power Optimization** solutions
- Extensive track record of **Embedded System Projects**
  - Concept and specification
  - Soft- and hardware development and test
  - Hardware production
- **Subsidiary Hitex (UK)**  
(Consulting, Development and Tools)
- **Global Network** of partners  
(Development and Tools)



- **Award** winning company



-  **embedded** AWARD 2008
-  **embedded** AWARD 2010
-  **embedded** AWARD 2011

# Professional Services and Experiences

## ■ Consulting & Engineering

### □ System Concept- & Requirement Definition

#### — System

- Development process
- Certification requirements
- Quality standards (SIL/ASIL, CLASSB, IEC 61508, ISO 26262)

#### — Software

- $\mu$ C evaluation
- Tool selection (development and test tools)
- Middleware selection ( RTOS, communication software, safety libraries)
- Training and bring-up service
- Integration and verification service

#### — Hardware

- Design-To-Cost
- Safety rules
- CE rules
- Mechanical requirements (housing, packaging)



# Professional Services and Experiences

## ■ Consulting & Engineering

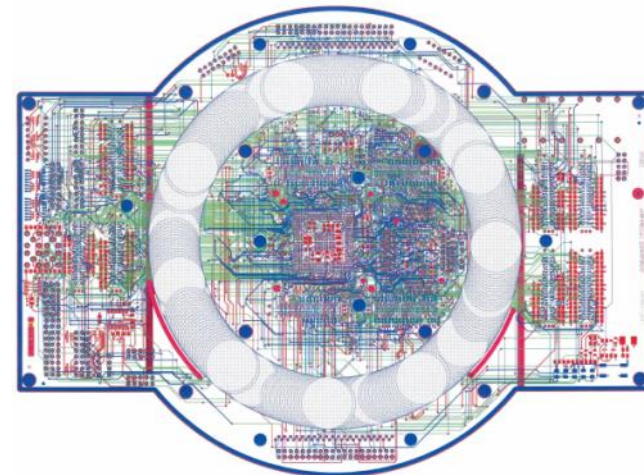
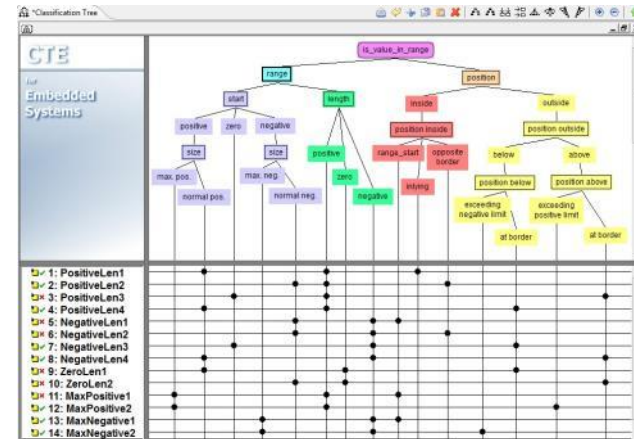
### □ System Architecture- & Detailed Design Specification and Implementation

#### — Software

- Software detailed design specification
- Implementation of software (HAL, low-level drivers, AUTOSAR, GUI)
- Test specification
- Unit testing
- Code reviews

#### — Hardware

- High speed digital design
- Schematic entry (several EDA tools)
- PCB layout
- FPGA design
- Test specification
- Mechanical design (housing, packaging)
- Production of prototypes



# Professional Services and Experiences

## ■ Consulting & Engineering

- Unit Testing, Integration & System Verification and Validation
  - Perform unit tests of software modules with validated unit test tools (like Tessa)
  - Integration of
    - Prototype boards
    - Low level drivers
    - Middleware
    - Support the customer to integrate the application
    - GUI
  - Perform system tests
  - Perform CE tests
  - Porting services (hardware, software)



- Record of successful development projects with:
  - ABB AG
  - Bombardier Transportation GmbH
  - Bosch Rexroth AG
  - Continental AG
  - DENSO AUTOMOTIVE GmbH
  - Knorr-Bremse AG
  - Robert Bosch GmbH
  - ZF Friedrichshafen AG
  - and many others...



# Manufacturing

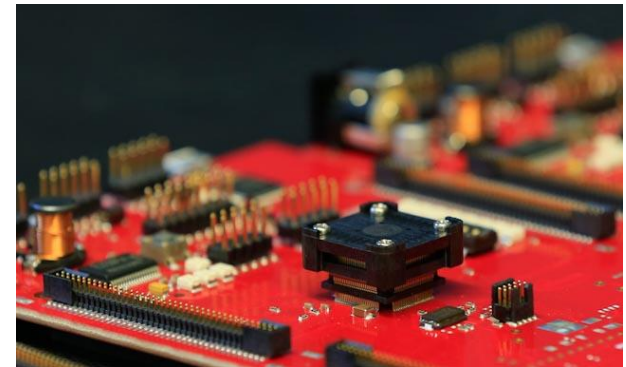
## ■ Manufacturing

### □ Board Level

- Boards designed by the customer or by Hitex
- Prototype-, small- or mass-lot production
- Component procurement
- In-house production test

### □ System Level

- Quality control
- Fulfillment
- Hitex webshop sales platform
- Worldwide logistics
  - Experts in Export-Controlling and Customs
  - Classification of Products according to AL and ECCN
- Maintenance



# AURIX™ Preferred Design House - Overview

Development Services  
Bring-up Services  
Safety Consulting  
Training

Evaluation Boards  
Oikos ECU platform  
Development Tools  
Test tools  
Low level drivers  
Middleware  
Adapter



Prototyping  
Product finish  
Logistics

# AURIX™ Preferred Design House - Services

## ■ Standard First Level Support

Hitex will provide first level support as a technical interface to customers in Germany, Austria, Switzerland, UK, BENELUX, Scandinavia and Central Europe

This support is provided by email or phone during regular business hours and covers the following topics:

- ❑ AURIX  $\mu$ C architecture
- ❑ Tools for AURIX (compiler, evaluation boards, adapters etc.)
- ❑ Middleware (SafeRTOS, safety libraries, AUTOSAR MCAL drivers)
- ❑ Functional safety  
(SIL/ASIL, CLASSB, IEC 61508, ISO 26262)
- ❑ Security
- ❑ Certification requirements





# AURIX™ Preferred Design House - Services

## ■ Premium Level Support - Consulting, Engineering & Manufacturing

One-Stop-Shop for Consulting / Training:

- ❑ AURIX hands-on training
- ❑ System concept and design (hardware, software)
- ❑ Safety concept
- ❑ Process (according to standards like IEC 61508 or ISO 26262)
- ❑ Customer process and product review
- ❑ Preparation for safety certification
- ❑ AURIX bring-up service
- ❑ Trouble shooting and optimization (performance, energy consumption)
- ❑ Microcontroller architecture migration service
  - Porting from XC166/XC2000 and others to AURIX
  - Porting firmware, middleware to AURIX



# AURIX™ Preferred Design House - Services

## ■ Premium Level Support - Consulting, Engineering & Manufacturing

One-Stop-Shop for:

### □ Tools and middleware

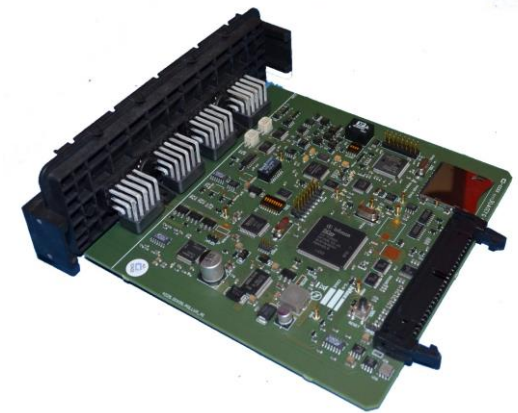
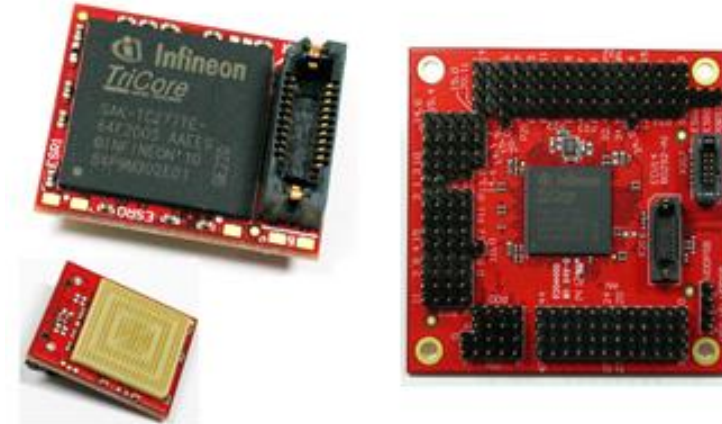
- Compiler, debugger, evaluation boards, adapter
- Test tools
- Safety libraries, SafeRTOS™, MCAL drivers

### □ Engineering

- Software development (low level driver (LLD), Complex device driver (CDD), GUI, applications)
- Unit tests
- Hardware development (high-speed PCB design, FPGA design)
- Development according to safety standards

### □ Manufacturing

- Production of prototypes and series products
- Fulfillment (system assembly, logistics, export control)
- CE certification with EMC tests



Oikos.EVM Electric Vehicle Manager

# AURIX™ Preferred Design House - Contacts

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