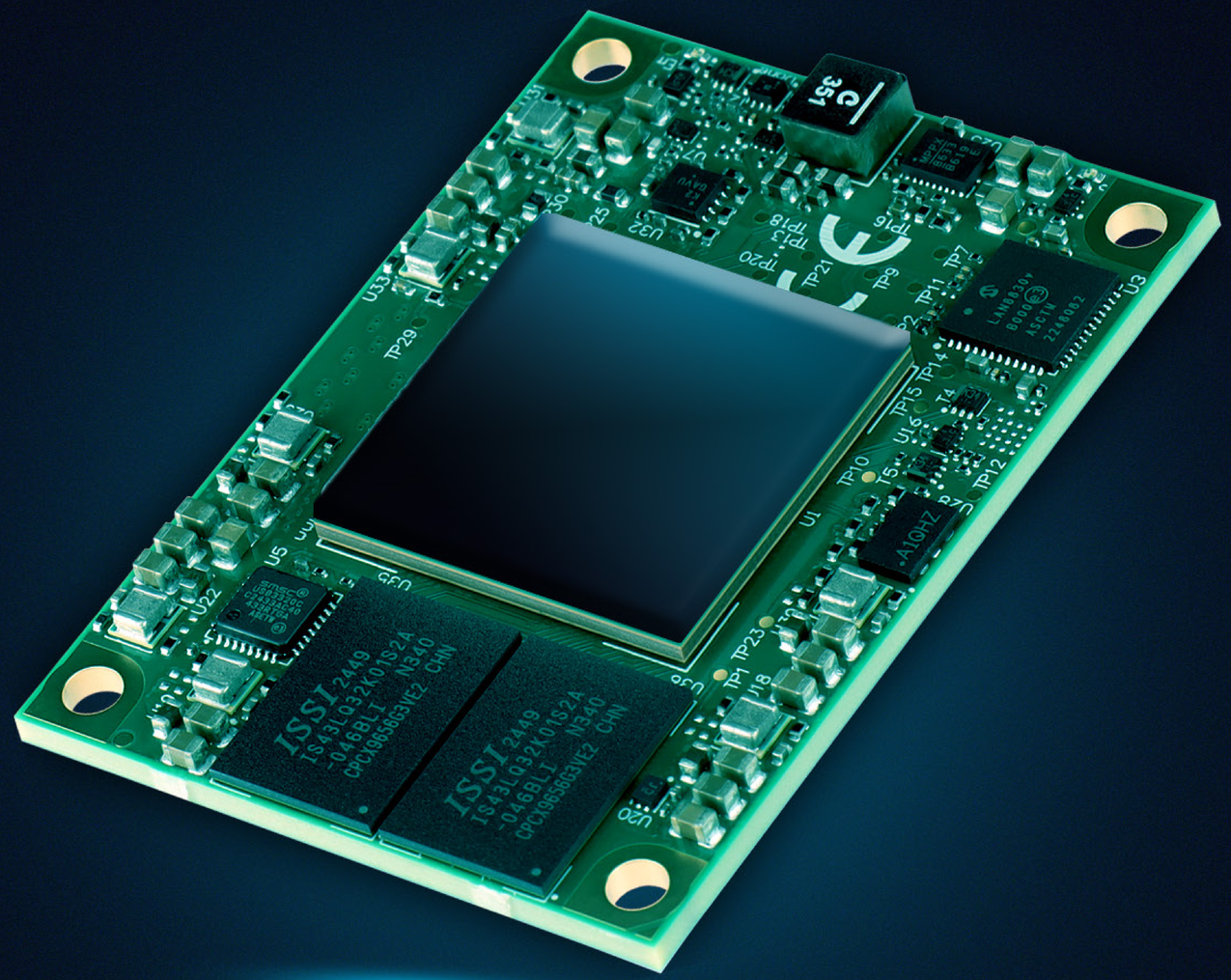
trenz electronic

FPGA & SoC.
Made in Germany.



Company presentation

Last updated: 2026-11-12

Facts & Figures



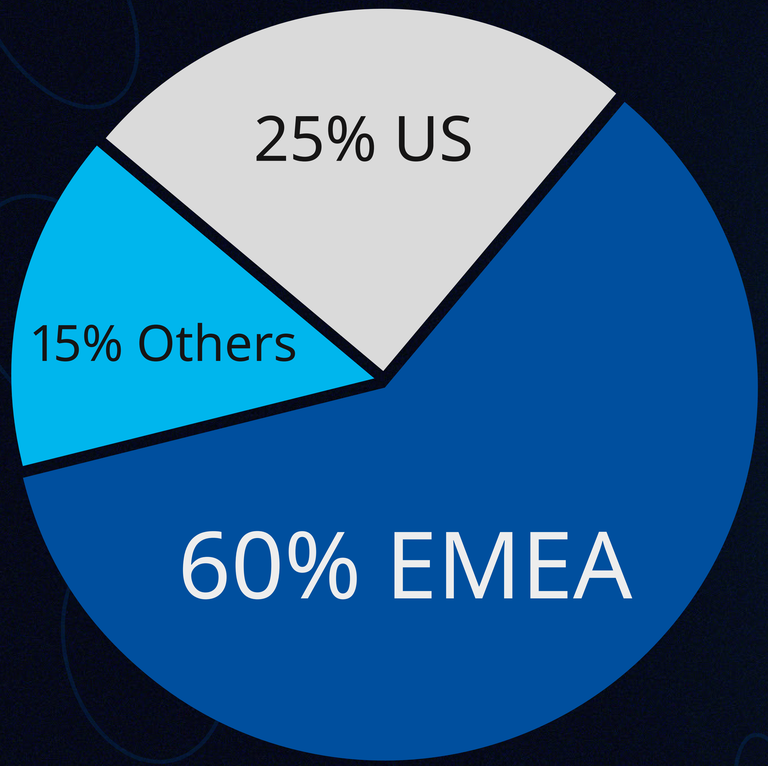
Location	Employees	Region of Focus
Germany	**> 100**	**EMEA, US**

Founded	Total Assy. Modules	Unique Modules
2002	**> 600k**	**800+**

All at one location

RnD - Assembly - Testing

Markets & Customers



Test & Measurement

Medical

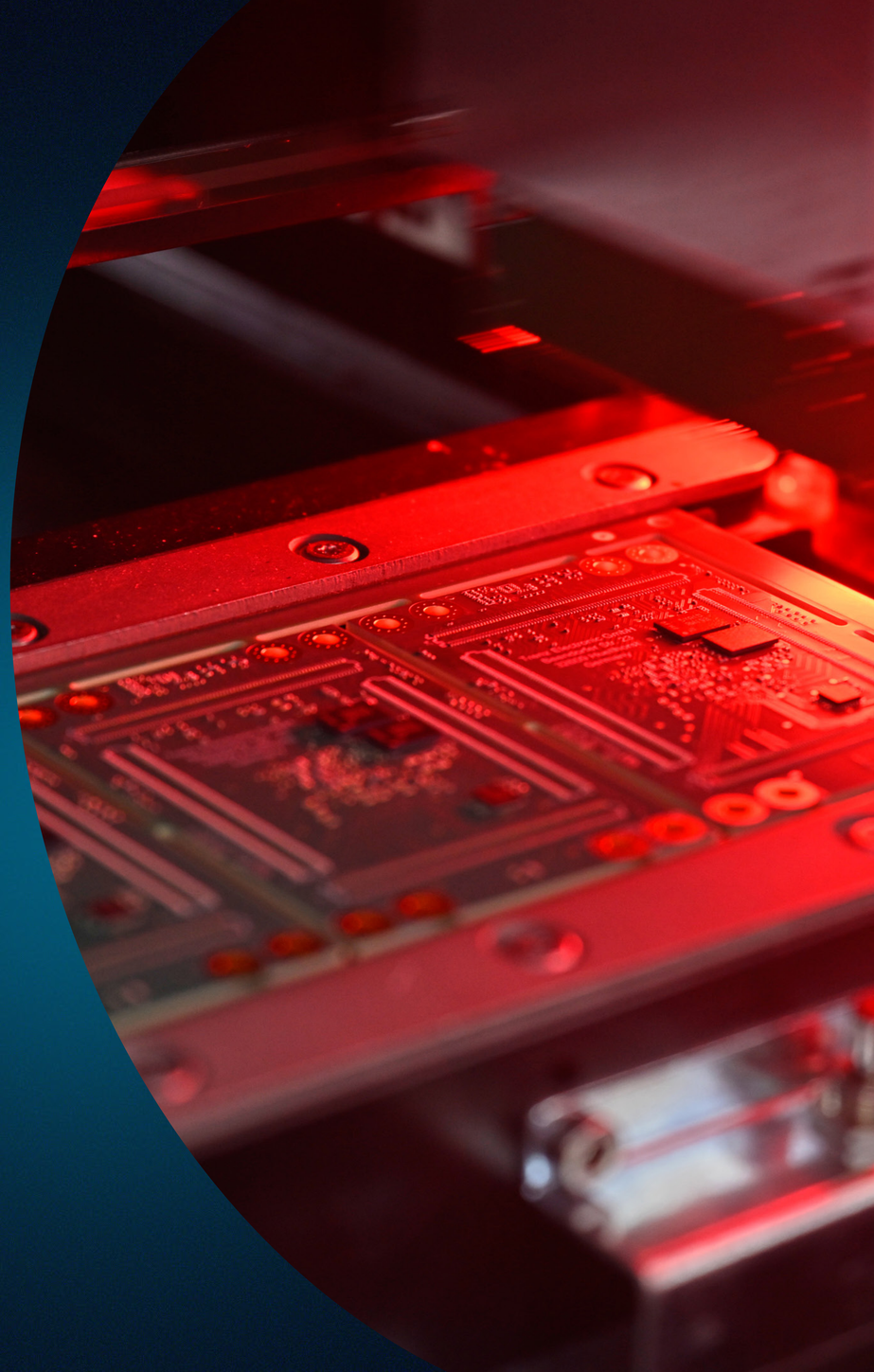
Main Fields of Customers

Industrial

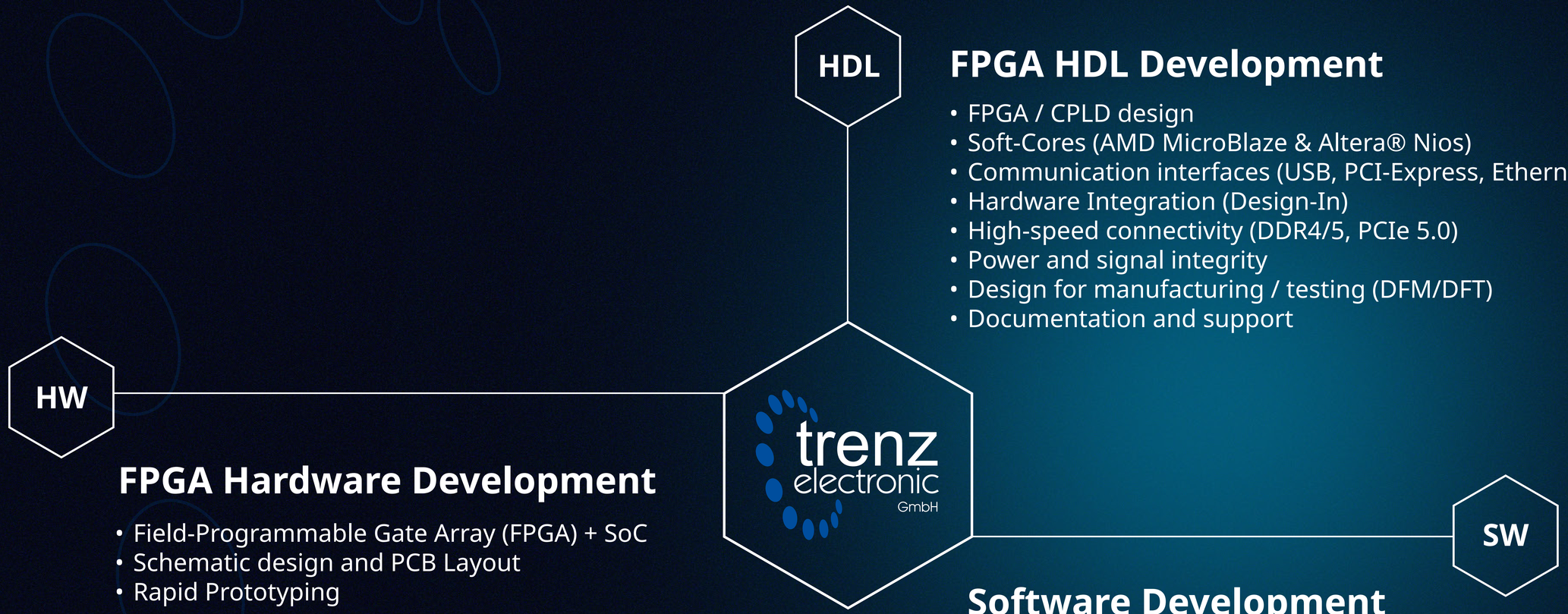
Defense

Trenz Electronic Services
Made in Germany

- Integration of FPGA and SoC modules
- Electronic design and manufacturing service
- Rapid prototyping
- Long term supply and obsolescence management



Our Core Competencies



FPGA HDL Development

- FPGA / CPLD design
- Soft-Cores (AMD MicroBlaze & Altera® Nios)
- Communication interfaces (USB, PCI-Express, Ethernet)
- Hardware Integration (Design-In)
- High-speed connectivity (DDR4/5, PCIe 5.0)
- Power and signal integrity
- Design for manufacturing / testing (DFM/DFT)
- Documentation and support

FPGA Hardware Development

- Field-Programmable Gate Array (FPGA) + SoC
- Schematic design and PCB Layout
- Rapid Prototyping

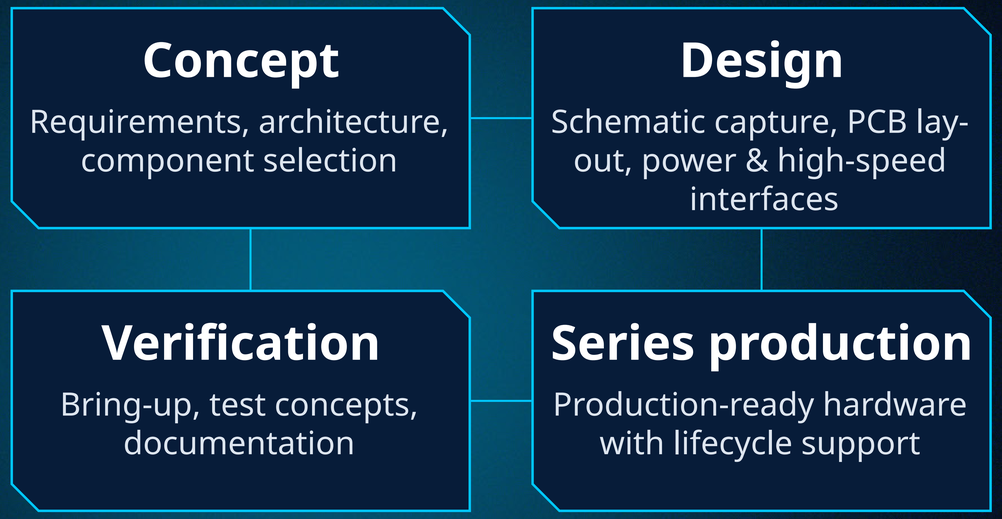
Software Development

- Linux and bare-metal drivers for custom programmable-logic IP cores
- Linux and bare-metal software for all modern FPGA processor types: application, real-time and soft cores
- CI with automated builds and tests

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Hardware Development

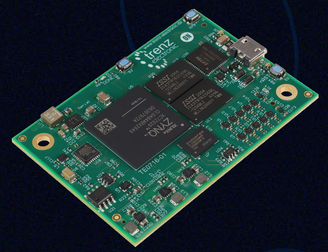
- Field-Programmable Gate Array (FPGA) + SoC
- Schematic design and PCB Layout
- Rapid Prototyping



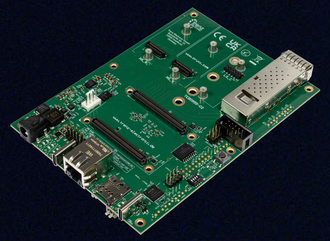
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Product Families

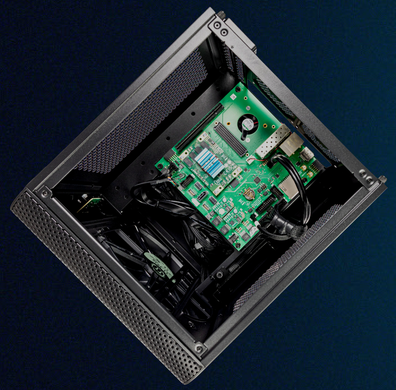
SoM



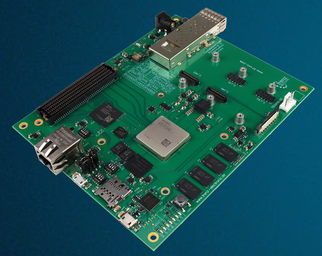
Carrier Boards



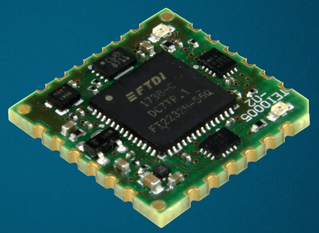
Starter Kits



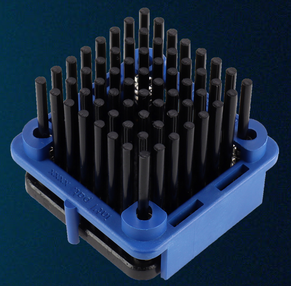
Evalboards



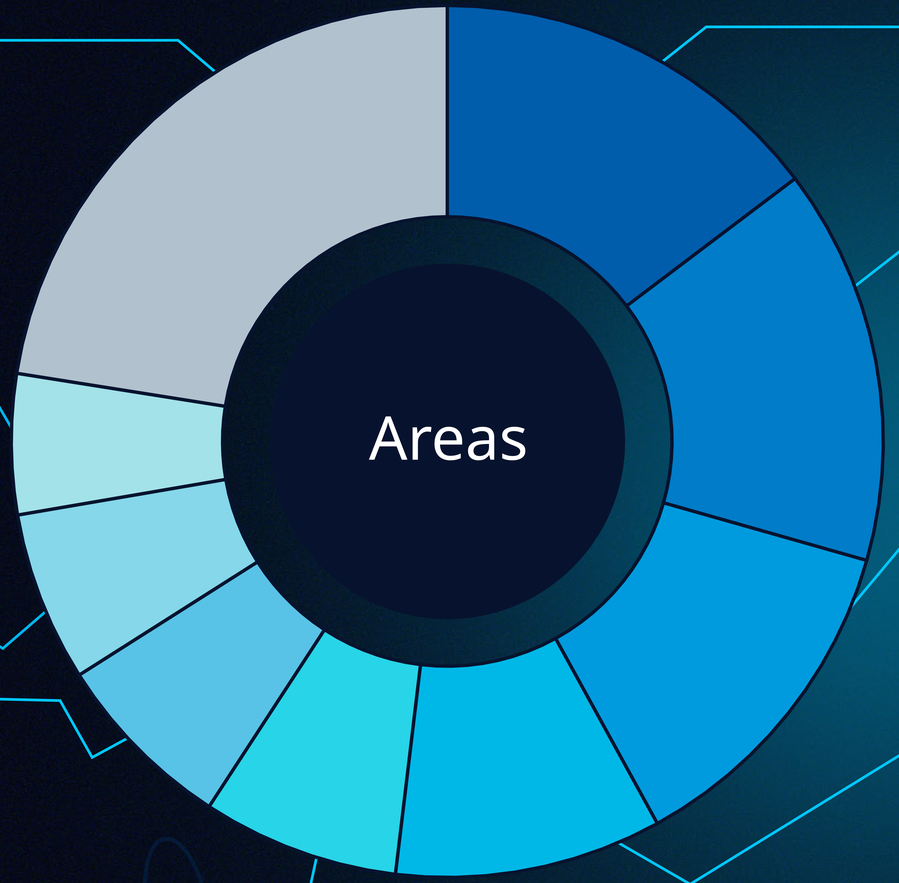
Extensions



Accessories



Areas of Application



- Unknown Customer Applications
- Navigation, Aviation & Aerospace
- Industry & Automation
- Communication & SDR
- Quantum & Atomic Physics
- Image Processing and AI
- Measurement and Testing Technology
- Education & FPGA Evaluation
- Semiconductor Development & Validation

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In-House Production

In-House Production & Testing

Traceability & (custom) test concepts

Short lead times & high availability

Quality management



Production

01
Preparation

ESD-safe environment
Incoming goods inspection
Storage & drying



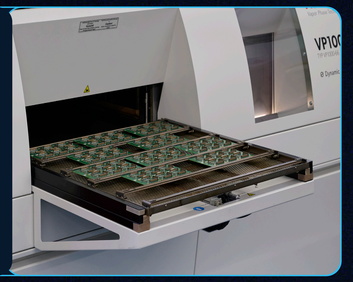
02
Assembly

PCB assembly
and component placement



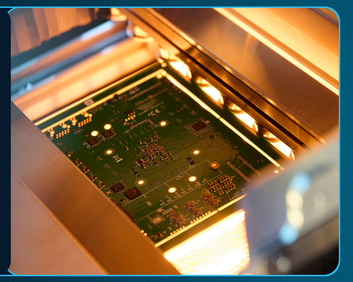
03
Soldering

Reflow and selective
soldering



04
Inspection & Cleaning

First article inspection
Cleaning & bonding



05
Testing & Solutions

Testing



06
Traceability & Shipping

Traceability
Packaging & shipping





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Production

IN-HOUSE MANUFACTURING:
from preparation to final testing.



Preparation

ESD-safe environment, incoming goods inspection, storage & drying

Assembly

PCB assembly and component placement

Soldering

Reflow and selective soldering

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Production

THE COMPLETE PROCESS CHAIN

Inspection & Cleaning

First article inspection, cleaning & bonding

Testing & Solutions

Functional testing, chip-down & turnkey solutions

Traceability & Shipping

Full traceability, packaging & shipping

All at one location
Germany

High quality
& reliability

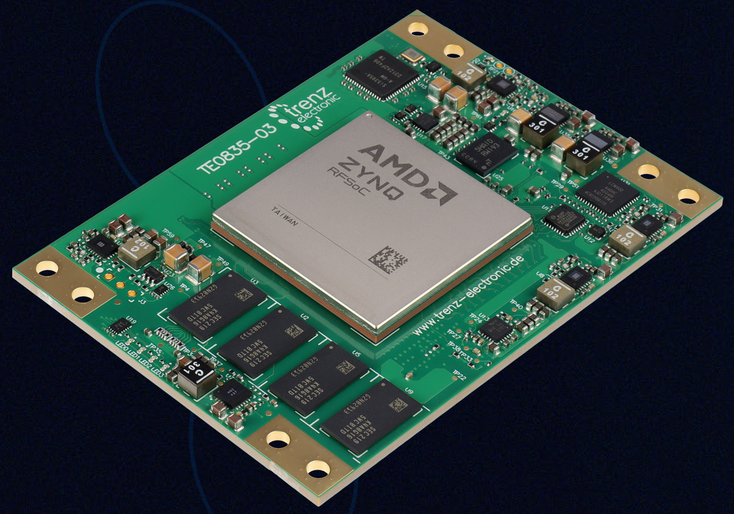
Flexible production
from prototype to series

Customized solutions
& chip-down services

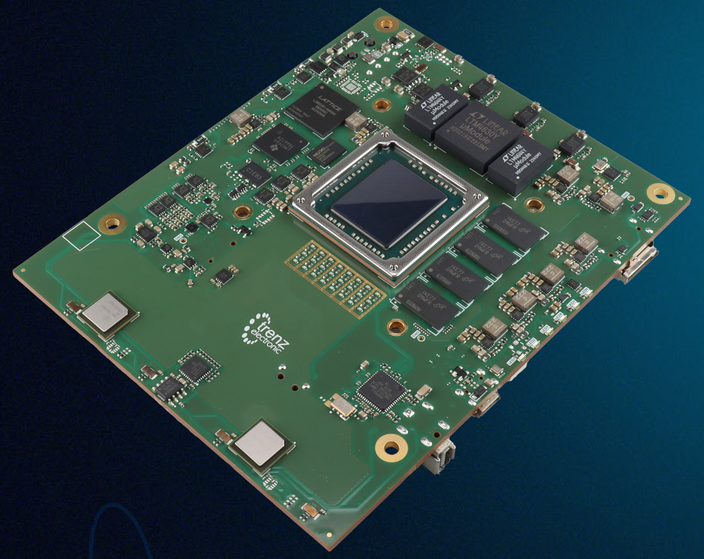
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Cost-optimized / Custom Path

SOM



Customization Chip-down



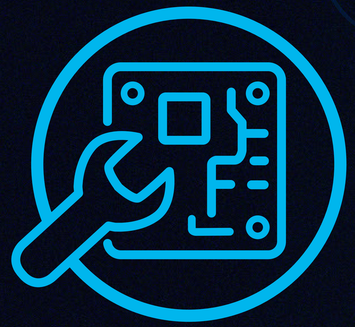
Turnkey



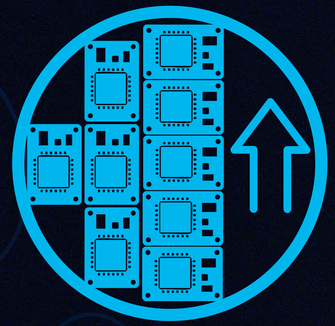
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Customization & Chipdown

Automotive



Assembly of customer-specific modules / boards

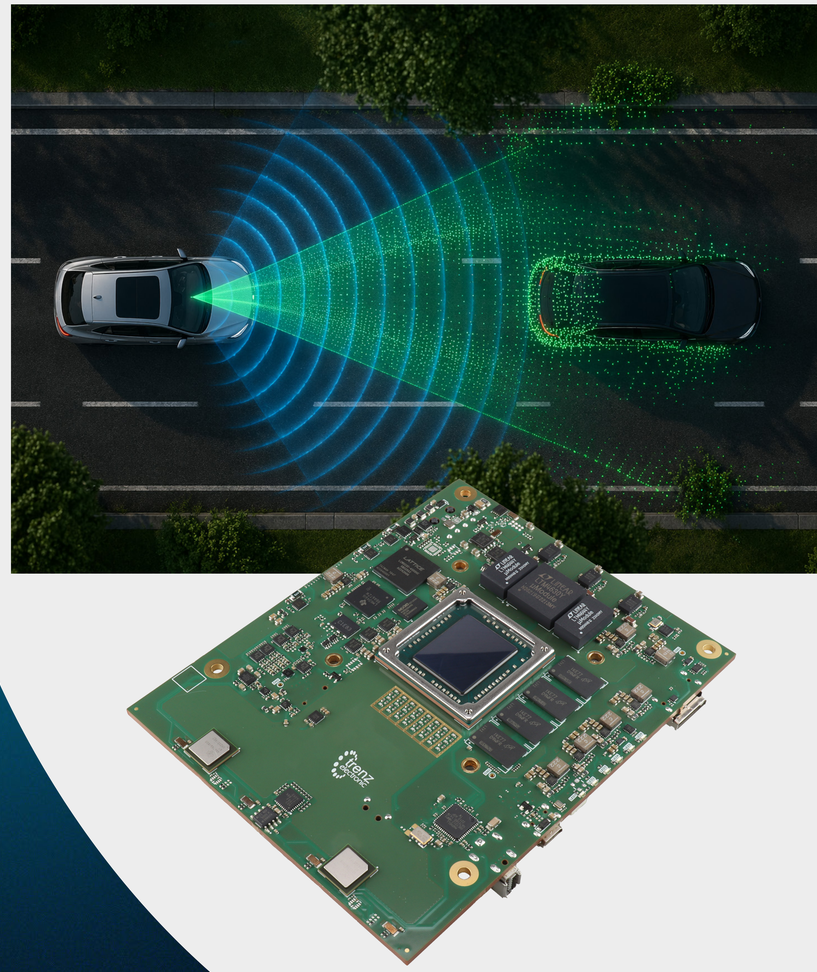


Adaptation to quantities

Chip-down from scratch

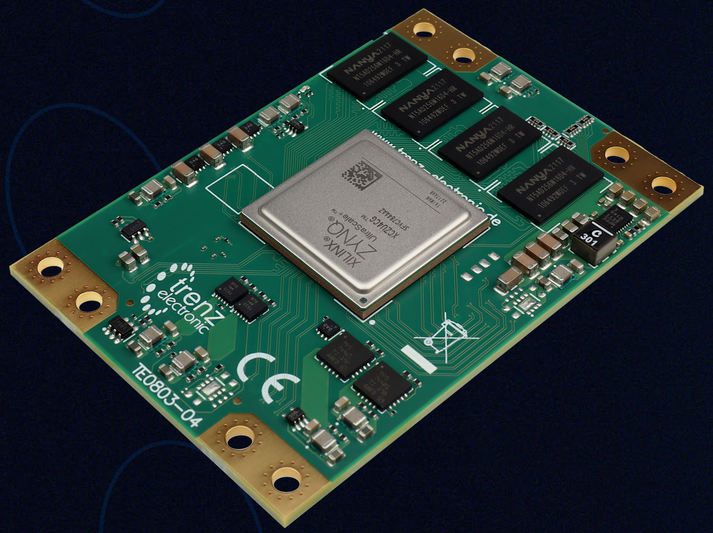
Radar & Lidar

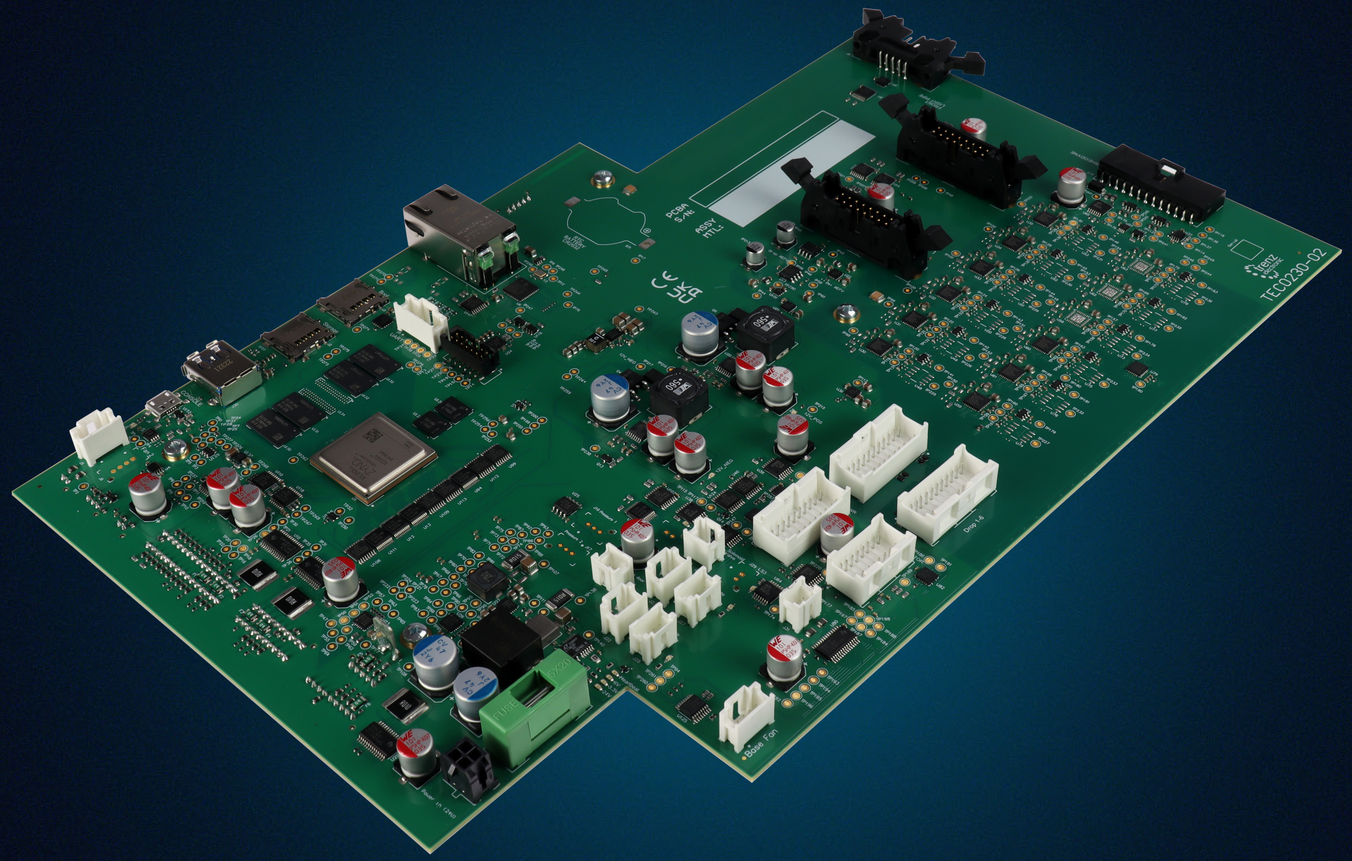
A combination for safer driving



Implementation

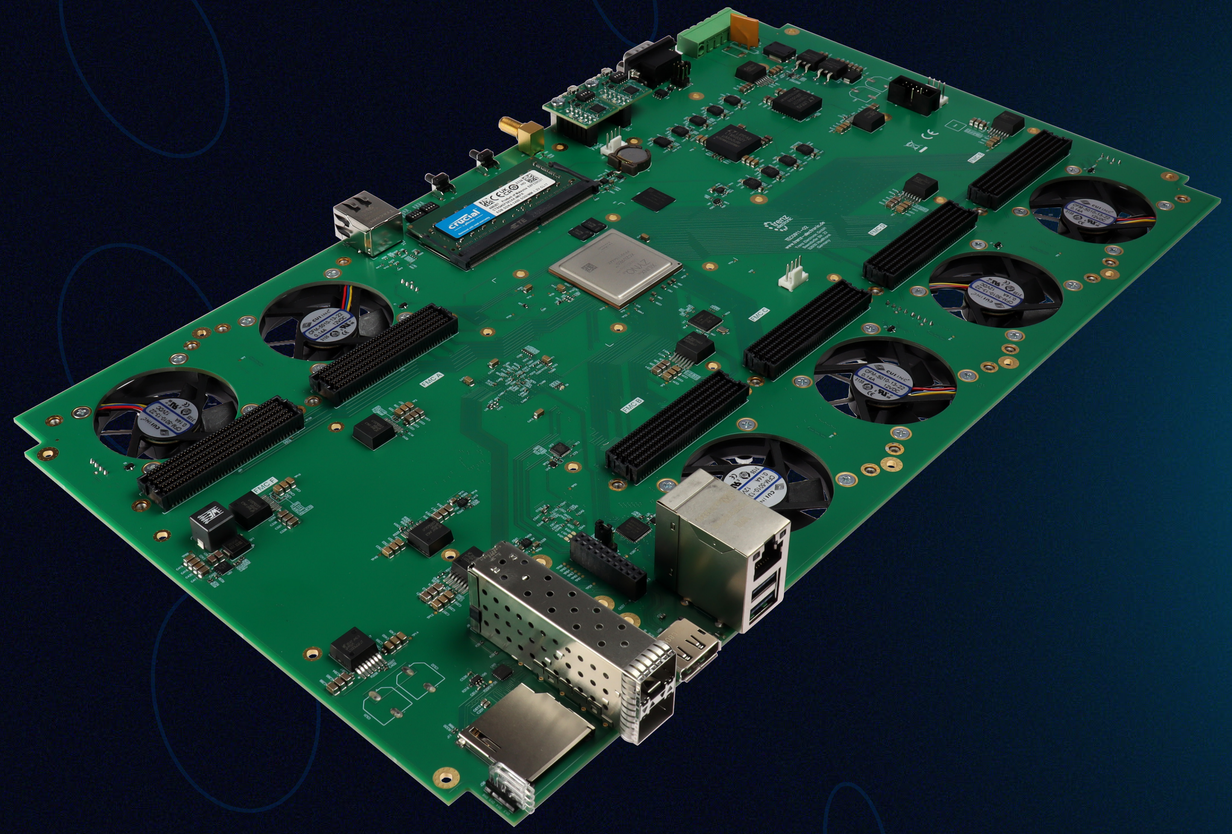
Medical





Turnkey

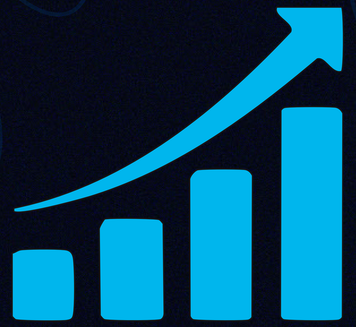
Test & Measurement



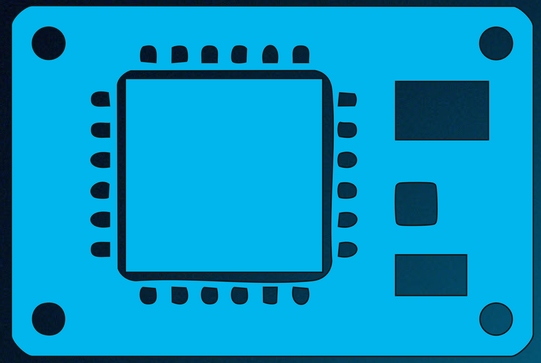




Assembly Variants



Scalability

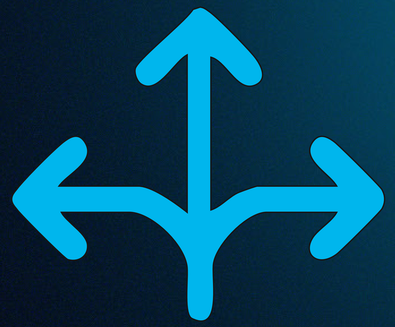




No NRE



Cost optimization



High flexibility

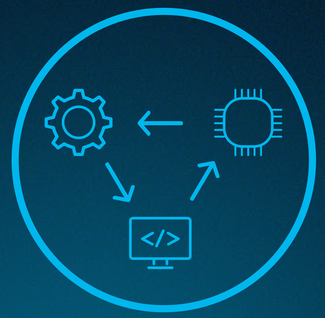


Ready for tomorrow

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You are never alone

- Extensive data and full transparency
- We bring it all under one roof
- Direct support from our engineers



One-stop solution



Download area



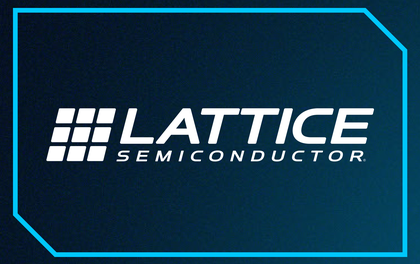
Personal support

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Partners & Cooperations

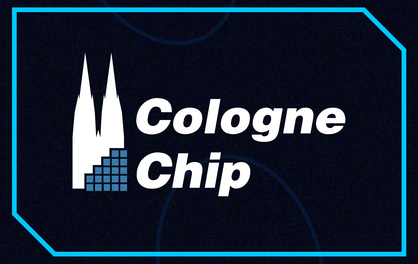


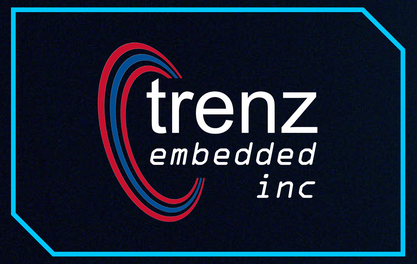


















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Contact & Support

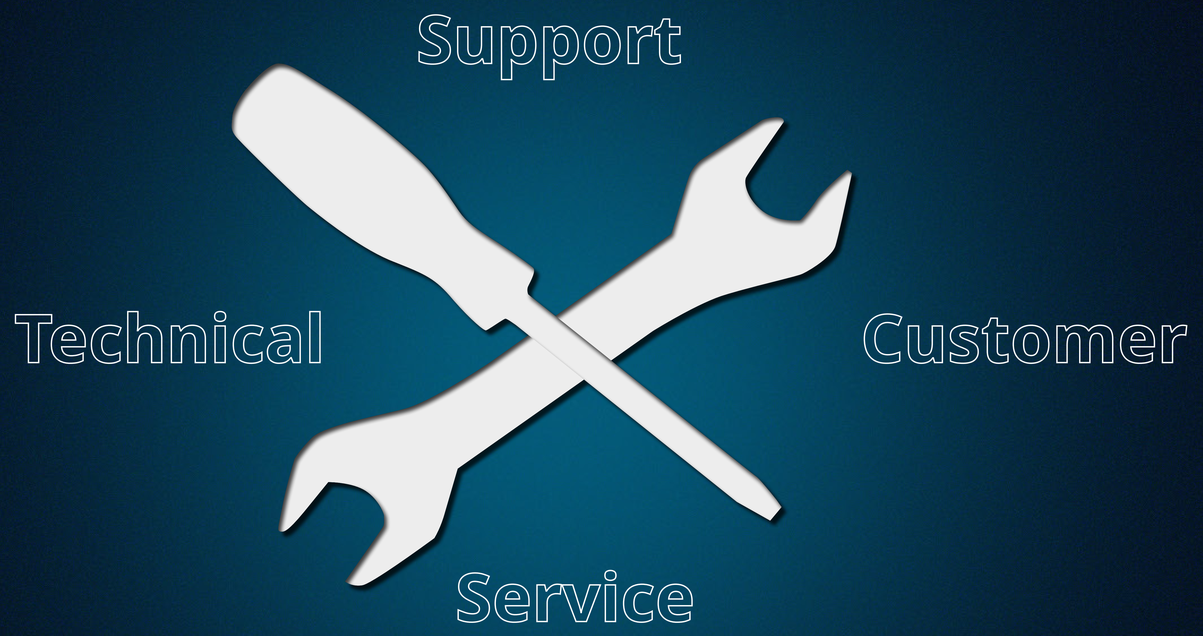
Sales
sales@trenz-electronic.de

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support@trenz-electronic.de

Webshop
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Wiki
wiki.trenz-electronic.de

Forum
forum.trenz-electronic.de



Thank you

