Trenz Electronic GmbH operates as a provider of development services in the electronics industry since 1992. Our service include design-in support as well as turnkey designs which typically covers all steps from product specification, hard- and software design up to prototyping and production. We are particularly specialized in the design of high-speed data acquisition, high-accuracy measurement and embedded digital signal processing systems based on FPGA and CPU architectures.

Many of our products are compatible with some widespread form factors. We also provide SoM products for Automotive industry and high-end applications.

Customers benefit from our engineering expertise focused on embedded systems in industrial environments, as well as PC-based process control and measurement systems. Our development service is supplemented by FPGA- and MCU-based development boards and tools. In the event that an off-the-shelf FPGA board won't fit customers' requirements, the design can easily be adapted by our comprehensive engineering design services.

Our in-house EMS and worldwide supply of FPGA and SoC modules complete the portfolio.

All modules are developed and manufactured in Germany.

**XILINX ALLIANCE PROGRAM CERTIFIED**

Trenz Electronic GmbH is a certified member of the Xilinx Alliance Program and also European partner and official distributor of Digilent Inc., USA.

**Custom Electronic Design Service**

Development, manufacturing and supply of FPGA and SoC modules

- Customizable
- Rapid prototyping
- Extended device life cycle
- Rugged for industrial applications
- Automotive Grade available
- Small and powerful
- Cooling solutions
- Baseboards

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4 x 5 cm Form Factor

All Trenz Electronic SoMs in 4 x 5 cm form factor are mechanically compatible.

**Service**

**Supports**

-Supported by ISE, Quartus programmmer
- JTAG connector: standard 2 x 5 pin header
- USB: MicroUSB connector, USB 2.0 HS support
- Voltage levels supported: 1.8 to 3.3 V
- Very small size: 13.5 x 9.2 mm
- Additional support for UART
- Lattice: XCO2006 (CPLD)
- Also usable as mini Lattice evoboard
- Xmod form factor (30 x 25 mm)
- 1702SM
- Channel B-RK/TX/FDP
- Mini-USB connector (more rigid than micro-USB)
- JTAGS 4 STRM
- LDO for optional USB power
Other assembly options for cost or performance optimization available on request. Cooling solutions and carrier boards are available.