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

Service

Trenz Electronic GmbH operates as a provider of development services in the electronics industry since 1992. Our service includes 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 case 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 distribution of FPGA and SoC modules, baseboards, starter kits, FMCs and FMC carriers, PC/104 cards and development boards complete the portfolio.

All modules are developed and manufactured in Germany.

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

Xilinx Zynq-7000 Automotive

- Xilinx Zynq-7000 Automotive
- Form factor 6 x 6 cm
- Plug-on module with 3 x 80-pin high-speed strips
- 512 Mbit DDR3 SDRAM
- 8 Mbit QSPI Flash memory
- 76 single ended I/O, 24 LVDS pairs (48 I/O)
- 42 MIO available
- 2 x 100 Mbit Ethernet transceiver PHY
- CAN transceiver (PHY)
- Temperature compensated RTC
- Within the complex module, only Automotive components are installed.

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.

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**CompactPCI Serial Card**

- Xilinx Zynq UltraScale+ ZU9EG2
- 3U form factor
- BPI-CompactPCI Serial
- 8 to 32GB DDR3 SODIMM
- 128MB QSPI Boot Flash dual parallel
- Rear I/O: 32 differential pairs, 24 x GTH lanes, 4 x PS GTL lanes, 2 x USB 2.0 (depends on assembly variant)
- USB 3.0
- Gigabit Ethernet
- MicroSD card slot
- JTAG, UART via micro USB
- 2 x EEPROM
- Real-time clock
- Zynq MPSoc cooling fan connector

**Form Factor like Raspberry Pi 2 | Arduino | DIP40 Form Factor**

- Xilinx Zynq UltraScale+ XCZU2EG-1SBB484E
- 1.17GB LQFP484 memory
- Storage: 32GB SPI Flash
- MicroSD card
- MP3 codec support
- Audio: 3.5 mm jack
- User I/O: 2 x micro connectors
- Display: DisplayPort, VGA, 4x8-bit LED, 8x16-bit
- Communication and Debug
- USB 3.0 Host (type A connector)
- USB JTAG UART micro USB
- Gigabit Ethernet R46
- Input: 5 push buttons, 8 slide switches, reset button
- Power supply: 5V 2.5A

**Other assembly options for cost or performance optimization available on request. Cooling solutions and carrier boards are available.**