We are developing, manufacturing, integrating and selling FPGA and SoC modules for business and science.

All our modules are developed and manufactured in Germany.
Trenz Electronic GmbH

- Established 1992; GmbH since 2002
- Located in Bünde, Germany
- 72 staff members and growing
- Three locations in Bünde at present
- Moving to common location in Hüllhorst by 01.01.20
- SMD in-house manufacturing
- Rapid Prototyping
Trenz Electronic GmbH

- Three departments
  - Development
  - Manufacturing
  - Sales and distribution worldwide

- ISO9001 and ISO14001 certified

- Xilinx Alliance partner since 2007
4 x 5 Series Modules
Low Cost Series

- Hobby/Maker
- Educational
- Easy to use connector/header
- Zynq SoC/Artix FPGA/Intel FPGA based
- Compatible: Arduino, Raspberry Pi (HAT)
Automotive/High Temperature/Special

➔ Zynq SoC, mid to high end devices
➔ Automotive
➔ Anti-Sulfur
➔ Coating
MPSoC Development Board

- Xilinx Zynq UltraScale+ XCZU2CG-1SBVA484E
- 1 GByte LPDDR4 memory
- Storage
  - 32 MByte SPI Flash
  - MicroSD card
  - M2 PCIe SSD support
- Display: DisplayPort, VGA, 4-digit 7-segment LED, 8 LEDs
- Audio: 3.5 mm jack
- User I/O: 2 x Pmod connectors
- Communication and Debug
  - USB 3.0 Host (type A)
  - USB JTAG/UART microUSB
  - Gigabit Ethernet RJ45
- Input: 5 push buttons, 8 bit slide switches, reset button
- EEPROM
- Power supply: 5 V plug
CompactPCI Serial Card

- Zynq UltraScale+ MPSoC ZU15
- 3U form factor
- 64bit DDR4 SODIMM max. 32 GByte
- 128 MByte QSPI Boot Flash dual parallel
- Front side interface connectors
- 4 CompactPCI Serial connectors for backplane connection
Analog and special function modules

High speed ADC to 6 GBit optical fibre
High End SoMs with Xilinx Zynq UltraScale+ MPSoC

4 x 5 cm

5.2 x 7.6 cm
Starter Kits

Available with Xilinx Zynq UltraScale+ MPSoC and Zynq SoC

➔ MPSoC module with Xilinx Zynq UltraScale+
➔ Pre-assembled heatsink
➔ TEBF0808 base board
➔ Core V1 Mini-ITX enclosure
➔ Including accessories like power supply, XMOD FTDI JTAG adapter, micro SD card, USB cable, screws, bolts
Baseboard and Evaluation Kits

with reference designs

TE0701

TEB0728

TE0703

Accessories

XMOD FTDI JTAG Adapter
SMD In-house Production

- Full SMT production since 2014
- Two complete SMD lines
- Smallest SMD part 01005
- Inline PCB Feeder, direct solder printing, pick and place
- MY300, MY100, Mycronic automatic SMD storage system
- 2 x MY700 inline paste printer for MY100 and MY300 each
- AOI inspection
- Two IBL vapor phase ovens
- PCB cleaning system
SMD In-house Production
SMD In-house Production
Free Customer Support

➔ Phone
➔ E-Mail
➔ Forum
Free Download Area

Documentation, technical reference manuals, schematics, reference designs with source files, hardware designs, drivers, assembly diagrams, 3D files and lots more
Free Wiki

Documentation, manuals, resource pages

TE0808 Resources

TE0808 - 5.2 x 7.6 cm MPSoC module with Xilinx Zynq UltraScale+

- 5.2 x 7.6 cm MPSoC module with Xilinx Zynq UltraScale+
- Wiki with TRM, reference projects, application notes and more
- TE0808 Reference Desigs - Reference Design Description for Vivado 2017.2 and newer
- TE0808 Product Change Notifications - PCN (see also Schematic Change History and TRM)
- 5.2 x 7.6 UltraSoM+ STS and S55 B2B Connectors - overview, compatibility, mating heights and speed rating

Shop Links

- Shop TE0008 - contains prices, available stock, disposability, scope of delivery and more

Downloads

- Download area - various reference designs, schematics, hardware designs and more
- B2B Pinout Table - cross reference of modules with different baseboards

5.2 x 7.6 Carrier

- 5.2 x 7.6 Carrier - overview of available carrier boards for all 5.2 x 7.6 cm UltraSoM+ modules

Starter Kit

- Starter Kit 8008 - module with carrier, enclosure and more

Support

- For support, please go to http://forum.trenz-electronic.de/ or contact support@trenz-electronic.de
Bilingual Online Shop

with detailed descriptions and photos of the product, prices, block pricing, available stock, disposability, scope of delivery and more
Distributors all over the World

Global distribution: Digi-Key Electronics, Arrow Electronics, RS Components

Local distribution

Concurrent EDA LLC
ChipCad Ltd.
Future Linking Solution Tech Co. Ltd.
Inipro Inc.
Innovate Software Solutions Pvt. Ltd.
Lextronic
Microembesys Techn. Pvt
mirifica s.r.l.
Sitre Sarl
Sundance Multiprocessor Technology Ltd.
Tokushu Denshi Kairo Inc.
Embedded World Nuremberg
Thank you!