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## Trenz Electronic Introduces

Industrial FPGA Module Featuring  
AMD® Zynq®-7000 SoC and ISSI Memory



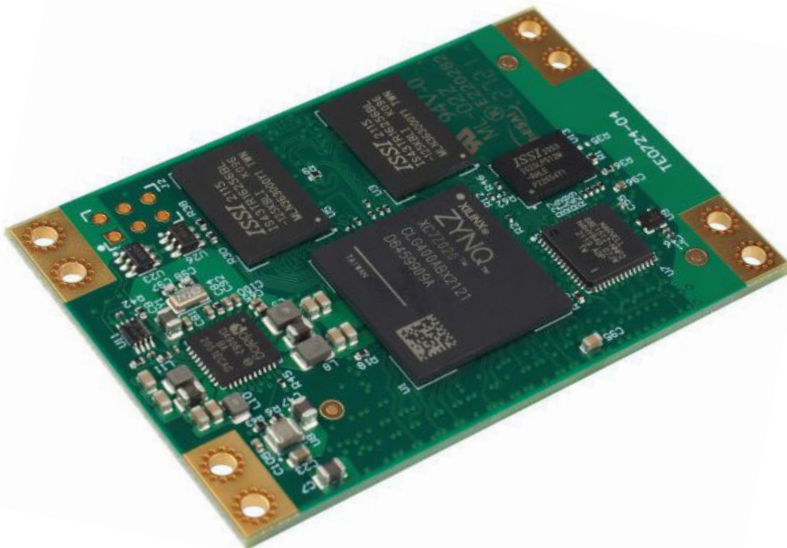
Trenz is now offering this small [4 x 6 cm], but powerful industrial grade module featuring AMD's Zynq-7020 SoC. The module also contains ISSI DDR3 and Flash memory for configuration and operation, and powerful switch-mode power supplies for all on-board voltages. A large number of configurable I/Os is provided via a rugged high-speed stacking strip. The Trenz module targets industrial applications needing flexibility, performance, and cost-effectiveness.

### The AMD Zynq-7020 features:

- Dual-core ARM Cortex-A9 MPCore™ at up to 667MHz
- 85K Programmable Logic Cells
- 53,200 LUTs
- 106,400 Flip-flops
- 4.9Mb block RAM
- 220 DSP slices
- Memory compatibility with DDR3, DDR3L, DDR2, LPDDR2
- Non-volatile compatibility with 2x Quad-SPI, NAND, NOR
- Peripherals include 2x UART, 2x CAN 2.0B, 2x I2C, 2x SPI, 4x 32b GPIO
- Peripherals w/built-in DMA: 2x USB 2.0 [OTG], 2x Tri-mode Gigabit Ethernet, 2x SD/SDIO

### In addition, this module from Trenz features:

- 1 GByte DDR3L SDRAM [2 x ISSI 4Gb DDR3, [IS43TR16256BL-125KBLI](#)]
- 64 MByte QSPI Flash memory [ISSI 512Mb QSPI, [IS25LP512M-RHLE](#)]
- 1 x Gbit Ethernet PHY
- Total I/O - PL:80, PS:20
- 1 x MAC-Adress EEPROM
- 128 KBit EEPROM
- 1 x CAN transceiver
- On-board DC/DC regulators
- Evenly-spread supply pins for good signal integrity
- Rugged design for high shock and vibration
- Plug-on module expansion port with 1 x 160-pin High-Speed connectors



Trenz Electronic develops, manufactures, integrates and sells FPGA and SoC modules for business and science. Main focuses are on e.g. application specific HDL and FPGA design plus hard- and software development. All modules produced by Trenz Electronic are developed and manufactured in Germany.



Visit the Trenz Electronic website to order: [TE0724-04-61133-A](https://www.trenz-electronic.com/TE0724-04-61133-A)

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