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

Visit the Trenz Electronic website to order: TE0724-04-61I33-A

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.