MPSoC Module with Xilinx Zynq UltraScale+ ZU4EV-1E, 2 GByte DDR4, 5.2 x 7.6 cm

- **Order number:** TE0803-02-04EV-1EA

Product information "MPSoC Module with Xilinx Zynq UltraScale+ ZU4EV-1E, 2 GByte DDR4, 5.2 x 7.6 cm"

The Trenz Electronic TE0803-02-04EV-1EA is an industrial-grade MPSoC module integrating a Xilinx Zynq UltraScale+ with ZU4EV, 2 GByte DDR4 SDRAM, 128 MByte Flash memory for configuration and operation, and powerful switch-mode power supplies for all on-board voltages. A large number of configurable I/O's is provided via rugged high-speed stacking connections.

All this on a tiny footprint of 5.2 x 7.6 cm at the most competitive price. These high-density integrated modules are smaller than a credit card and available in several variants.

All parts are at least extended temperature range of 0°C to +85°C. The module operating temperature range depends on customer design and cooling solution. Please contact us for options.

Key Features

- Xilinx Zynq UltraScale+ XCZU4EV-1SFVC784E
- ZU4EV, 784 Pin Packages
- Dimensions: 5.2 x 7.6 cm
- Plug-on module with 4 x 160 pin B2B connectors
- Rugged for shock and high vibration.
- 3 mm mounting holes for skyline heat spreader
- 2 GByte 64-Bit width DDR4 SDRAM
- 128 MByte SPI Boot Flash dual parallel
- 2 KBit Serial EEPROM for MAC Address
- 48 High-density (HD) I/O's (2 banks)
- Graphic Processing Unit (GPU) + Video codec unit (VCU)
- User I/O
  - 65 x multi-use I/O's (MIO)
  - 156 high-performance (HP) I/O's (3 banks)
  - Serial transceiver: PS GTR 4; PL GTH 4
  - Programmable 4-channel PLL clock generator
- All power supplies on board, single 3.3V power source required
- Evenly spread supply pins for good signal integrity.

Other assembly options for cost or performance optimization plus high volume prices available on request.

Recommended Software

Vivado Design Suite - HLx Edition Download

Vivado Design Suite HLx Editions include Partial Reconfiguration at no additional cost with the Vivado HL Design Edition and HL System Edition. In-warranty users can regenerate their licenses to gain access to this feature.

Overview of all Editions of Vivado Design Suite Editions

Development Support

There is a base board available for this module.

Latest documentation, design support files and reference designs with source files are available for download free of charge.

Scope of Delivery

- 1 x MPSoC module TE0803-02-04EV-1EA with Zynq UltraScale+ ZU4EV

Additional Information

- Manufacturer's article number: TE0803-02-04EV-1EA
- Trenz Electronic TE0803 Wiki
- Support Forum

All modules produced by Trenz Electronic are developed and manufactured in Germany.