MPSoC Module with Xilinx Zynq UltraScale+ ZU2CG-1E, 2 GByte DDR4, 5.2 x 7.6 cm

- **Order number:** TE0803-02-02CG-1EA

Product information "MPSoC Module with Xilinx Zynq UltraScale+ ZU2CG-1E, 2 GByte DDR4, 5.2 x 7.6 cm"

The Trenz Electronic TE0803-02-02CG-1EA is an industrial-grade MPSoC module integrating a Xilinx Zynq UltraScale+ with ZU2CG, 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.

This product is not always in stock, but will be produced on customer order (on demand).
Please ask for any minimum quantities.

Key Features

- Xilinx Zynq UltraScale+ XCZU2CG-1SFVC784E
- ZU2CG, 784 Pin Packages
- Dimension: 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)
- 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 TE0803-02-02CG-1EA with Zynq UltraScale+ ZU2CG

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