



TEB0911 UltraRack+ MPSoC Board with Xilinx Zynq UltraScale+ ZU9,6 FMC connectors

- **Order number:** TEB0911-04-ZU9EG1E

Product information "TEB0911 UltraRack+ MPSoC Board with Xilinx Zynq UltraScale+ ZU9,6 FMC connectors"

The Trenz Electronic TEB0911 UltraRack+ board is integrating a Xilinx Zynq UltraScale+ ZU9EG MPSoC with 4 GByte Flash memory for configuration and operation, DDR4-SDRAM SO-DIMM socket with 64-bit wide data bus, 22 MGT lanes and powerful switch-mode power supplies for all on-board voltages.. The TEB0911 board exposes the pins of the Zynq MPSoC to accessible connectors and provides a whole range of on-board components to test and evaluate the Zynq UltraScale+ MPSoC and for developing purposes. The board is capable to be fitted to a enclosure, whereby on the enclosure's rear and front panel, I/O's, LVDS-pairs and MGT lanes are accessible through 6 on-board FMC connectors and other standard high-speed interfaces, namely USB3, SFP+, SSD, GbE, etc.

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

- Zynq UltraScale+ MPSoC XCZU9EG-1FFVB1156E
 - 1156 Pin Package
- 64bit DDR4 SODIMM (PS connected)
- M2 PCIe SSD (1-Lane)
- eMMC (bootable)
- Dual QSPI Flash (bootable)
- System Controller(LCMXO2-7000HC)
 - Power Sequencing
 - IO Expander
- Configurable PLLs
- GTH/GTP Reference CLKs

Front Panel

- 4 x FMC
 - 4 GTH per FMC
 - 68 ZynqMP PL IO per FMC
- DisplayPort (2-Lanes)
- RJ34 ETH + Dual USB3 Combo
- Dual Stack SFP+
- SD (bootable)
- Status LEDs

Back Panel

- 2 x FMC
 - 4/2 GTH
 - 12 ZynqMP PL IO per FMC
- 56 SC IO per FMC
- USB JTAG/UART ZynqMP
- USB JTAG/GPIO FMC
- CAN FD (DB9 Connector)
- SMA (external CLK)
- 5-pin 24V power connector

Board size

- 406 mm × 234.30 mm, please download the assembly diagram for exact details.

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

Scope of Delivery

- 1 x TEB0911 UltraRack+ MPSoC board with Xilinx Zynq UltraScale+ ZU9EG

Additional Information

- Manufacturer's article number: TEB0911-04-ZU9EG1E
- [Trenz Electronic TEB0911 Wiki](#)
- [Support Forum](#)

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