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UltraTX+ Baseboard for Trenz Electronic TE080X UltraSOM+

- **Order number:** TEBF0808-04A

Product information "UltraTX+ Baseboard for Trenz Electronic TE080X UltraSOM+"

This is the replacement of TEBF0808-04. They differ by the new USB VBUS resistor R65 10k. All changes caused by the new revision are included in the [Product Change Notification \(PCN\)](#).

The Trenz Electronic TEBF0808 carrier board is a baseboard for the Xilinx Zynq Ultrascale+ MPSoC modules TE0803, TE0807 and TE0808, which exposes the module's B2B connector pins to accessible connectors and provides a whole range of on-board components to test and evaluate the Zynq Ultrascale+ SoMs and for developing purposes. The carrier board has a Mini-ITX form factor making it capable to be fitted into a PC enclosure. On the PC enclosure's rear and front panel, MGT interfaces and connectors are accessible, for the front panel elements there are also Intel-PC compatible headers available.

Features

- Mini-ITX form factor, PC enclosure compatible
- ATX-24 power supply connector
- Optional 12V standard power plug
- Headers
- Intel 10-pin HDA Audio
- Intel 9-pin Power-/Reset-Button, Power-/HD-LED
- PC-BEEPER
- On-board Power-/Reset-Switches
- 2 x Configuration 4-bit DIP-switches
- 2 x Optional 4-wire PWM fan connectors
- PCIe Slot - one PCIe lane (16 lane connector)
- CAN FD Transceiver (10 Pin IDC connector and 6-pin header)
- 4 x On-board configuration EEPROMs (1x Microchip 24LC128-I/ST, 3x Microchip 24AA025E48T-I/OT)
- Dual SFP+ Connector (2x1 Cage)
- 1 x DisplayPort (single lane)
- 1 x SATA Connector
- 2 x USB3.0 A Connector (Superspeed Host Port (Highspeed at USB2.0))
- 1 x USB3.0 on-board connector with two ports
- FMC HPC Slot (FMC_VADJ max. VCCIO)
- FMC Fan
- Gigabit Ethernet RGMII PHY with RJ45 MagJack
- All carrier board peripherals' I²C interfaces muxed to MPSoC's I²C interface
- Quad programmable PLL clock generator SI5338A
- 2x SMA coaxial connectors for clock signals
- MicroSD-/MMC-Card Socket (bootable)
- 32 GBit (4 GByte) on-board eMMC flash (8 banks a 4 GBit)
- 2 x System Controller CPLDs Lattice MachXO2 1200 HC
- 1 x Samtec FireFly (4 GT lanes bidirectional)
- 1 x Samtec FireFly connector for reverse loopback
- 20-pin ARM JTAG Connector (PS JTAG0)
- 3 x Pmod connector (GPIO's and I²C interface to SC CPLDs and MPSoC module)
- On-board DC-DC PowerSoCs
- Module size: 170 mm x 170 mm. Please download the assembly diagram for exact details.
- Mating height with standard connectors: 5 mm

Scope of Delivery

- 1 x UltraITX+ base board for Trenc Electronic's TE080x UltraSOM+ MPSoCs

Including pre-assembled accessories

- 2 x XMOD FTDI JTAG adapter (TE0790), compatible with Xilinx tools, for programming MPSoC and SC CPLDs

Required Hardware

- [Switching Power Supply 12 V](#)

Additional Information

- Manufacturer's article number: TEBF0808-04A
- [Trenz Electronic TEBF0808 Wiki](#)
- [Support Forum](#)

The online pictures of this product are not a legally binding offer, but are symbol pictures for illustration and present

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