FMC card based on VITA 57.1 FMC HPC standard plus four SFP+ 10 GBit ports

- **Order number:** TEF0008-02

Product information "FMC card based on VITA 57.1 FMC HPC standard plus four SFP+ 10 GBit ports"

The Trenz Electronic TEF0008 is a FPGA to Mezzanine Card (FMC) based on VITA 57.1 FMC HPC Standard, with four SFP+ 10 GBit ports for fiber optical SFP modules. It is inteded for use on a FMC HPC carrier and can not be used stand-alone.

The front panel included in the scope of delivery is used for mounting the TEF0008 on one of our PCIe cards.

Mounting holes near the front pannel are not implemented due to physical restrictions caused by the SFP cage. The dimensions exceed in some area the by Vita 57.1 standard defined dimensions. In the middle region of the card the cage is higher than the specified max high for this area. Check carefully if the carrier card uses this space for other components conflicting mechanical. The bottom side is at the high limit.

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

- Four SFP+ 10 GBit ports
- HPC FMC connector
- Low jitter programmable clock generator
- Intel (Altera) MAX10 FPGA 10M08SAU169C8G
- 3.3V to 1.8V DCDC converter
- 128KBit EEPROM
- Status LED (green)
- Dimension: 69 x 84 mm, SFP+ connector excluded (+ 5.5 mm)
- Highest part on PCB top is 9.5 mm (SFP+ cage, excluded front plate), bottom 1.4 mm (MAX10 FPGA)

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

Scope of Delivery

- 1 x TEF0008-02
- 1 x FPF0008-01 front panel for mounting TEF0008 on PCIe card

Additional Information

- Manufacturer's article number: TEF0008-02
- Trenz Electronic TEF0008 Wiki
- Support Forum

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