

The Artix-7 based SIS8172 MicroTCA.4 FMC Carrier

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The new SIS8172 FMC carrier in MicroTCA.4 form factor is a versatile digital I/O board, which was developed with a variety of accelerator controls and beam instrumentation applications in mind. While the quad SFP+ front panel interface can be used for inter-crate and long-distance point to point communication, most use cases will employ the Zone 3 D1.0 interface to interface to custom rear transition modules. The HPC FMC site can be used to complement the functionality with COTS or custom FMCs.

The overall design and the building blocks of the firmware framework of the SIS8172 card will be presented.

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