

Matthias Kirsch - MTCA/MTCA.4 boards for applications at FAIR

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With the European XFEL in standard user operation GSI's FAIR accelerator complex is Germany's next ambitious accelerator project. Several boards were developed to cover beam instrumentation applications in combination with existing designs. The Kintex Ultrascale based SIS8160 MTCA dual FMC carrier with the SFMC01 dual 2.5 GSPS 14-bit JESD digitizer FMC will be presented and the FCT readout application highlighted. A single cavity LLRF solution based on the SIS8300-KU MTCA.4 125 MSPS 16-bit digitizer AMC with the DS8VM1 direct sampling/vector modulator RTM is under evaluation for use in the UNILAC injector. The Artix based 64 channel SIS8864 LVTTL digital I/O AMC will be used for amplifier settings under optional event receiver control and generic applications.

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