

MTCA - a High Data Rate Solution for FAIR Beam Instrumentation

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Currently, GSI Beam Instrumentation Department accomplishes the detailed specifications for all FAIR beam instrumentation data acquisition (DAQ) systems. With respect to the large number and variety of diagnostic systems, a choice of three different form factors for the DAQ systems was made. Beneath PICMG 1.3 Industry-PC solutions and the well-established VMEBUS standard, the MTCA form factor will be supported, contingent on the requirements as e.g. for high data rates. A brief status of the FAIR project and plans for possible MTCA solutions at the various accelerators and storage rings of the FAIR facility are presented.

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