

Update on XFEL LLRF system development and production

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Due to its scale and tight specifications, the European XFEL poses real challenges in the field of low-level radio-frequency (LLRF) control. The implementation of this semi-distributed control system on the microTCA for physics (MTCA.4) platform triggered numerous designs of electronic boards and helped refine the usage of MTCA.4 technology for physics and control systems. This contribution presents an overview of the MTCA.4-based LLRF system for the European XFEL with an emphasis on key hardware and software components. The current production status, installation planning, quality management control and preliminary results are also presented.

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