

The Large Scale MicroTCA System of the European XFEL

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The European XFEL is a 3.3 km long X-Ray Free Electron Laser that is currently in the commissioning phase. The accelerator can produce up to 27 000 bunches per second. These bunches are distributed to three undulators. A flexible and independent operation of the beam lines is provided by a MicroTCA based timing system and machine protection system. All fast subsystems to readout and control the RF, the beam, and the interlocks are implemented in about 200 MicroTCA crates.

The talk will give an overview of the synchronization of the facility, the protection, the diagnostics and feedback systems that are based on MicroTCA.4.

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