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SP8: Design and status of a MicroTCA.4 based LLRF system for TARLA

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The Turkish Accelerator and Radiation Laboratory in Ankara (TARLA) are constructing a 40 MeV Free Electron Laser in continuous wave RF operation. In order to control and monitor the four superconducting (SC) TESLA type cavities as well as the two normal conducting buncher cavities a MicroTCA.4 based LLRF system is foreseen. This highly modular system is further used to control the mechanical tune of the SC cavities by control of piezo actuators and mechanical motor tuners. We are going to describe the system setup and integration in the existing accelerator environment, hardware and software wise.

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