XFEL Machine Protection System (MPS) based on MicroTCA
MPS Design Goals and Implementation I - MOM308

- Micro TCA
- distributed data processing
- XFEL 3.4 km
- SFP
- FLASH 0.3 km
- redundancy
- hot-swap
- configuration, no programming
- ILC 31 km
- remote firmware update
- reliability
- RS422
- galvanic isolation
- DOOCS
- scalability
- FPGA
- low maintenance
- manpower reduction
- cost reduction
- fiber optics

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