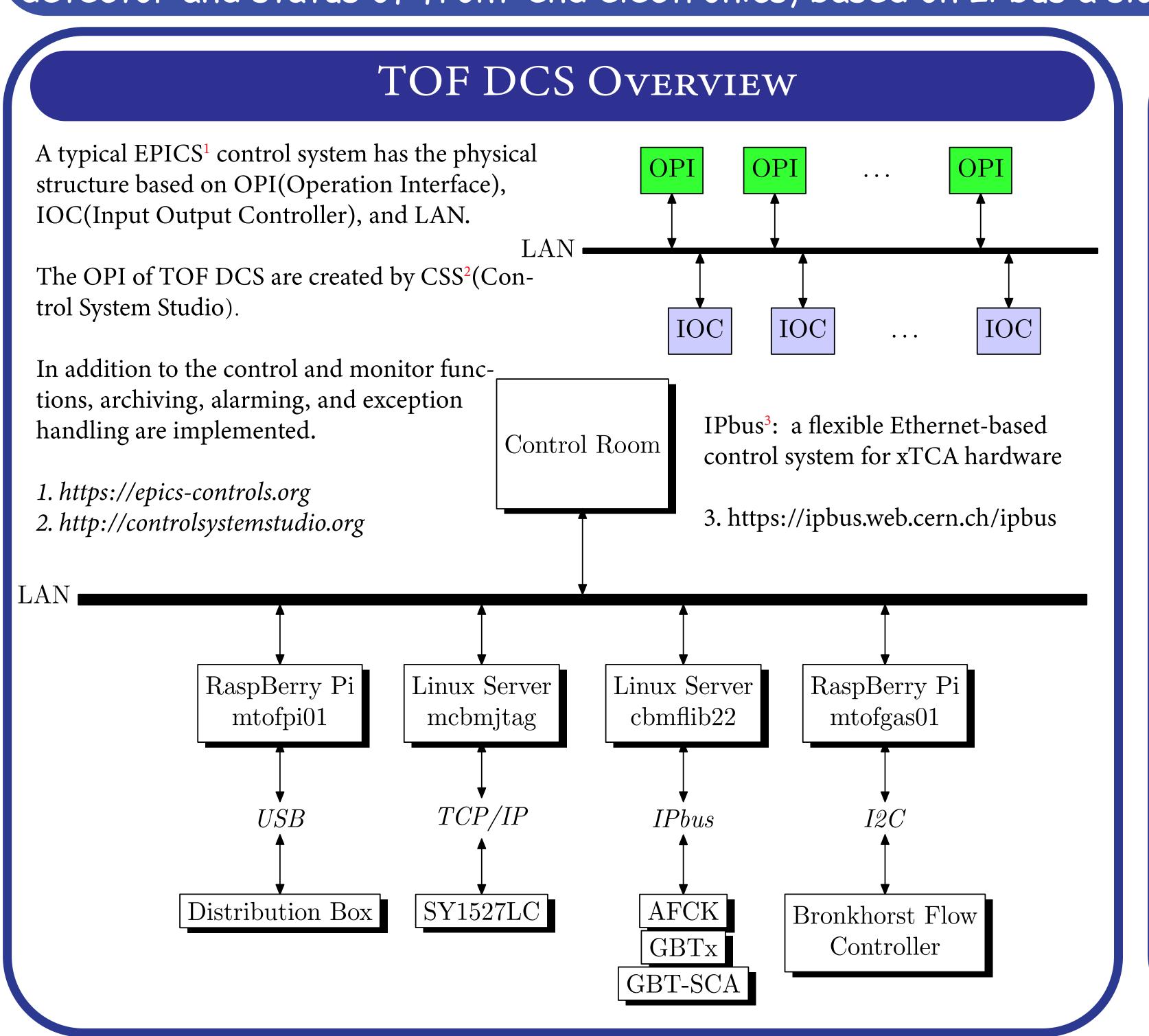
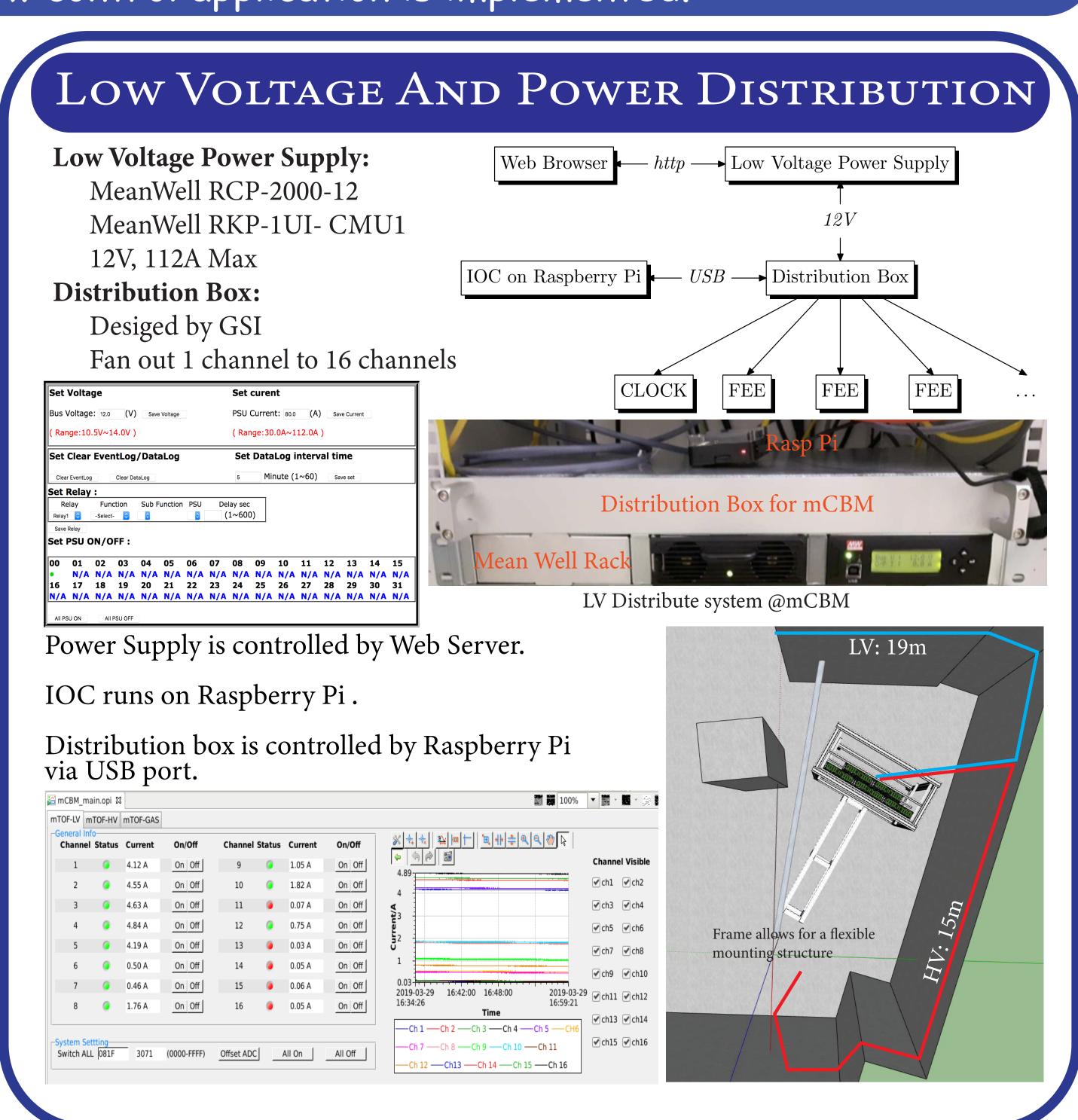


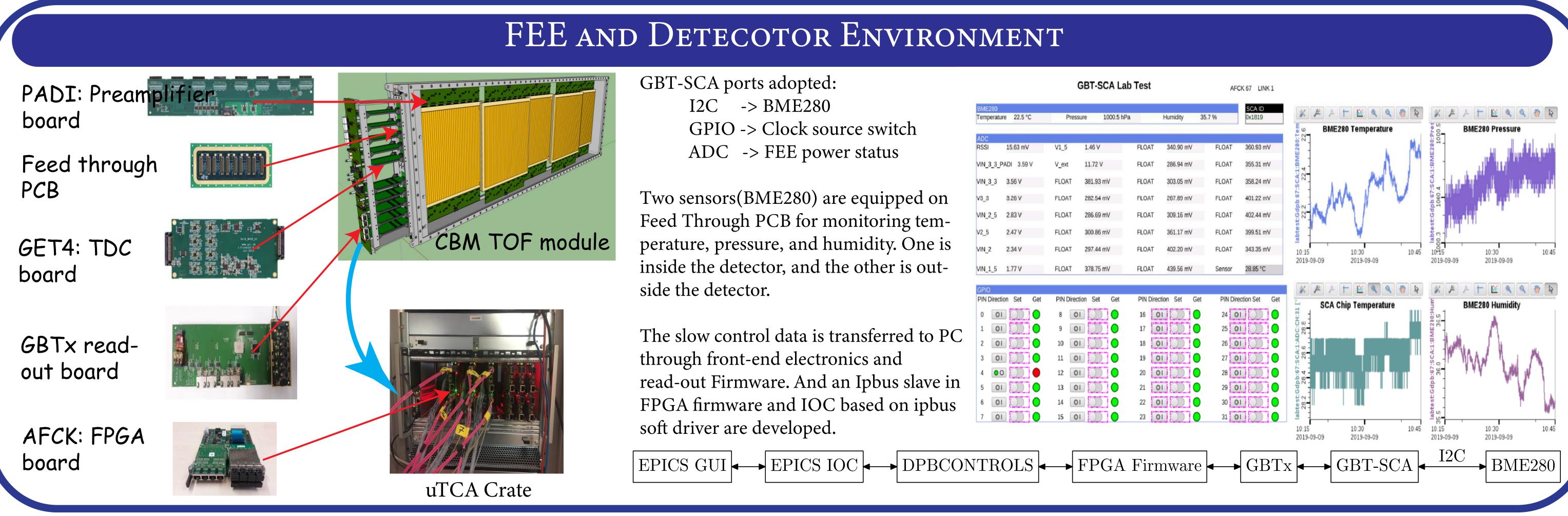
Detector Control System for CBM-TOF

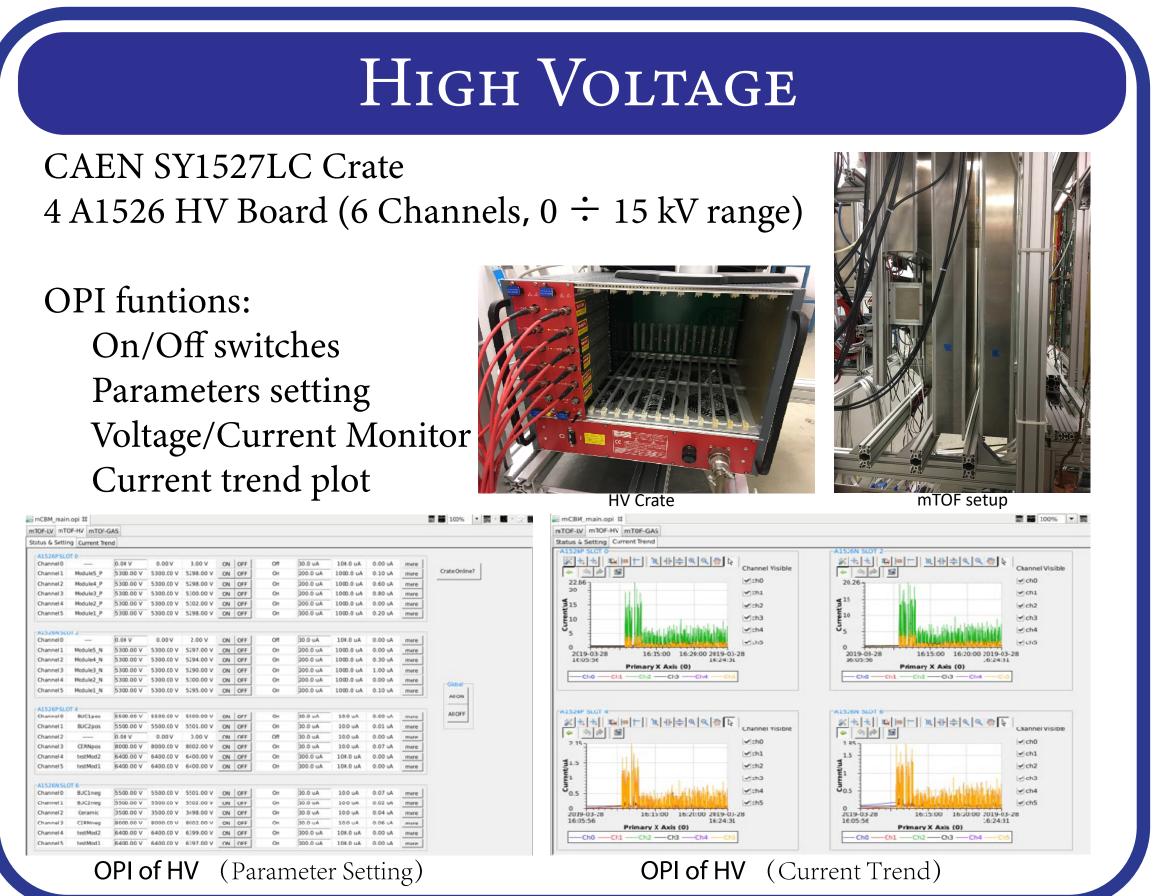


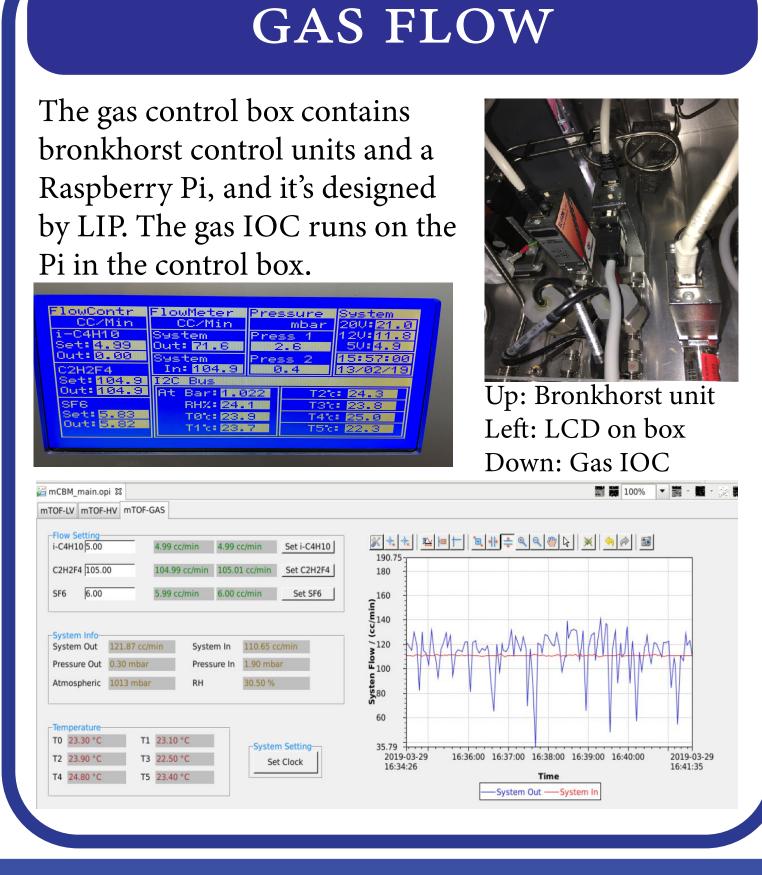
Abstract: For charged hadron identification, a high-performance time-of-flight (TOF) RPC wall is being built for the Compressed Baryonic Matter (CBM) experiment at FAIR. The Detector Control System(DCS) for CBM-TOF is designed based on the Experimental Physics and Industrial Control System(EPICS). Instruments including power supplies, power supply distributor, and gas control system are controlled and monitored in the mini-CBM(mCBM). For monitoring the environment of detector and status of front-end electronics, based on IPbus a slow control application is implemented.

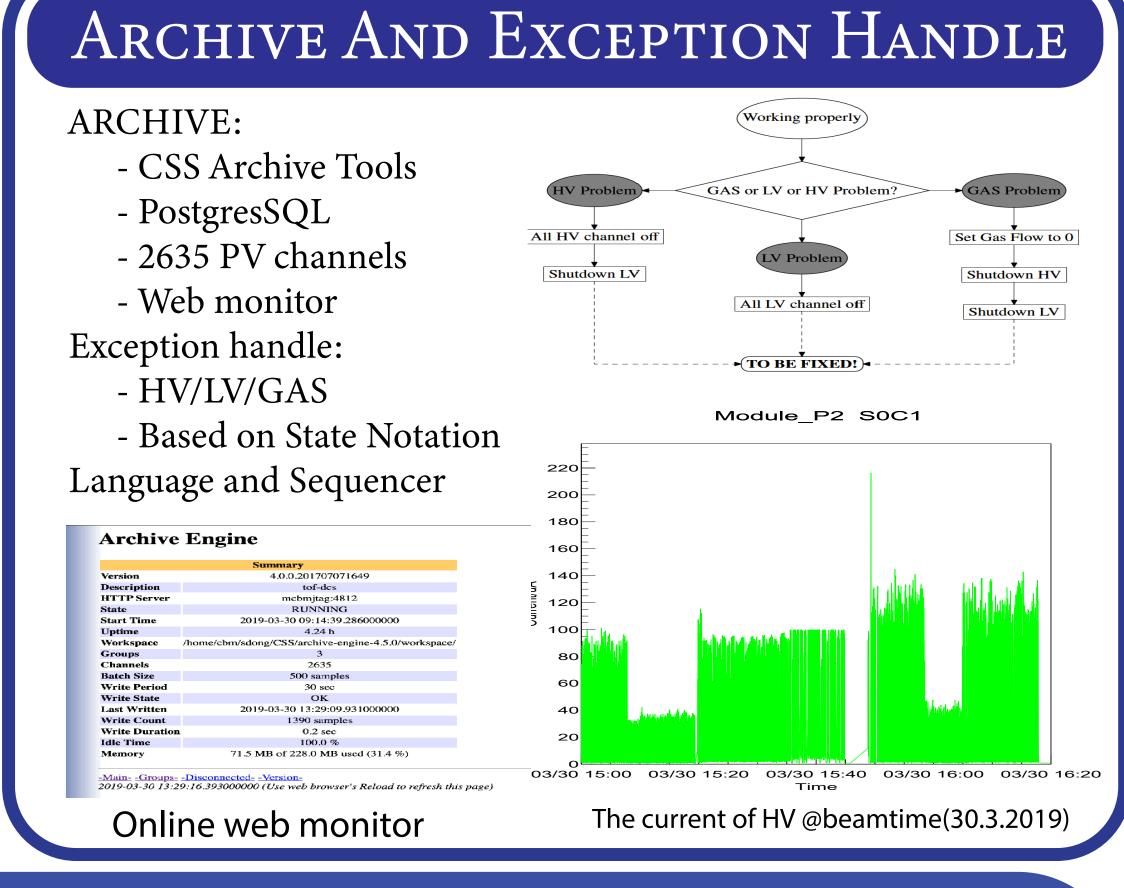












Summary: To handle a large and complex physical experiment like CBM, to have a stable and scalable control system is fundamental. The detector control system for CBM-TOF is designed based on EPICS and has been tested in beam tests in 2019 at GSI. In addition to the instruments like power supply and flow control devices, the control path from the detector to FEE and DAQ is developed.



