A programmable clock generator for automatic Quality Assurance of LOCx2

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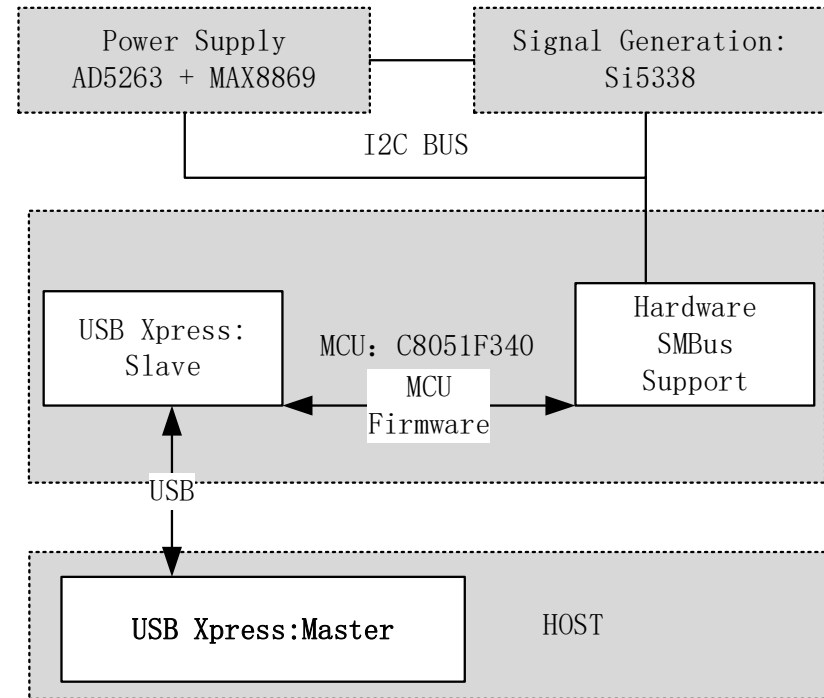University of Science and Technology of China

The upgrade of ATLAS Liquid Argon Calorimeter (LAr) Phase-1 trigger requires high performance data transmission. About 7000 LOCx2, the readout IC were fabricated, and a automatic Quality Assurance was needed. This work is about the control of clock-generator of the QA system.
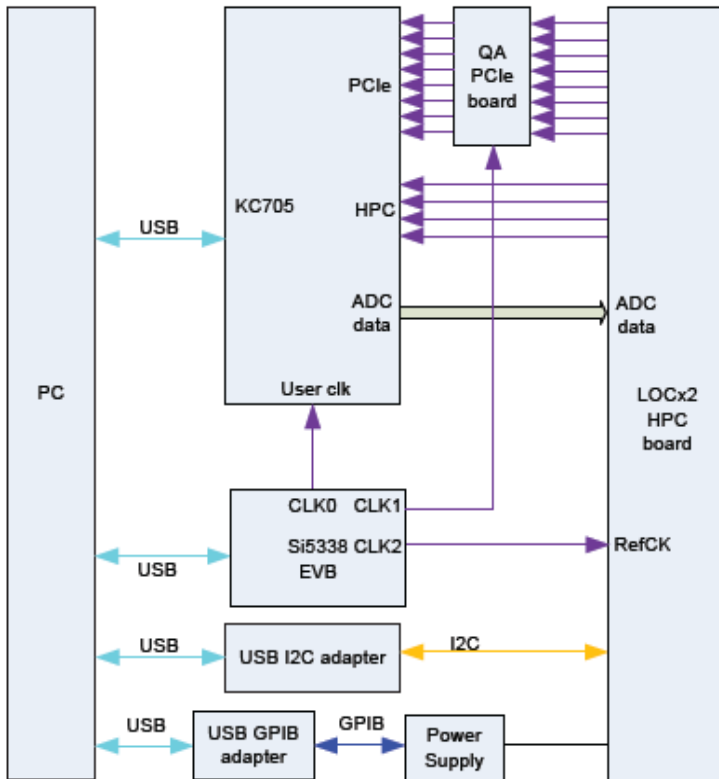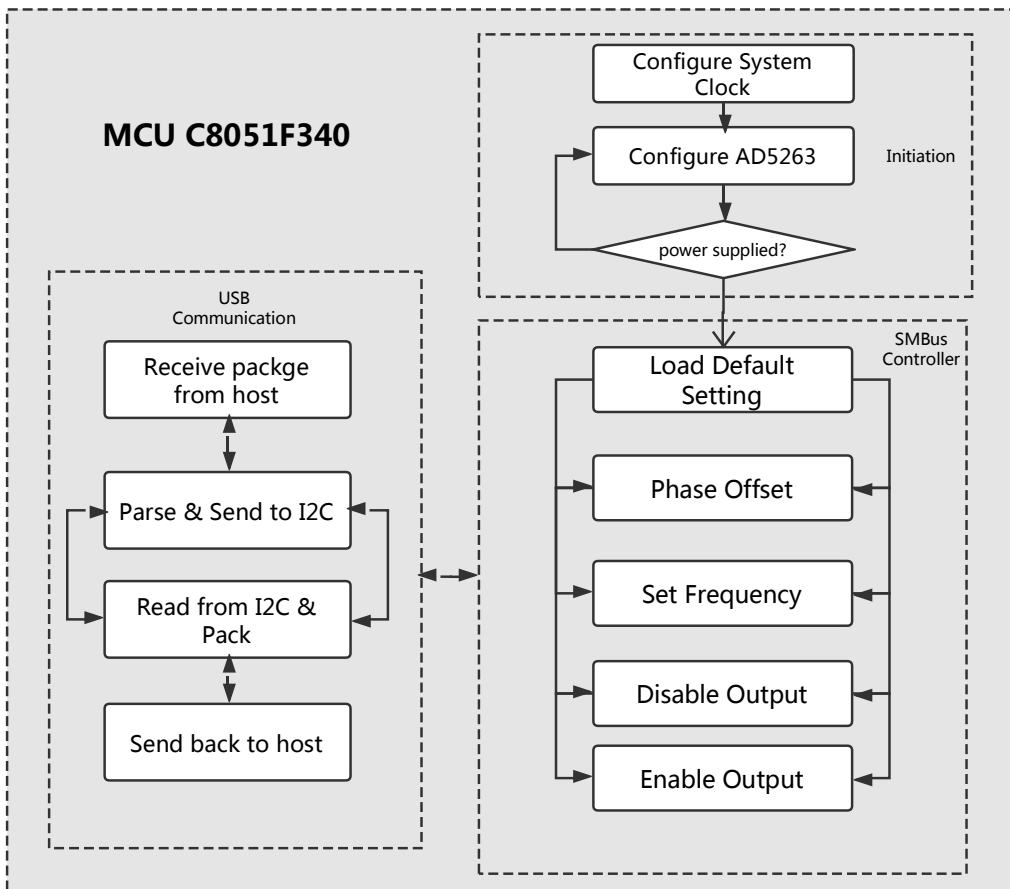

Block Diagram of QA system

The block diagram of clock generator PCB based on Si5338 any-frequency signal generator,

A set of Device firmware and Host program was developed to control the Si5338

Block diagram of device firmware
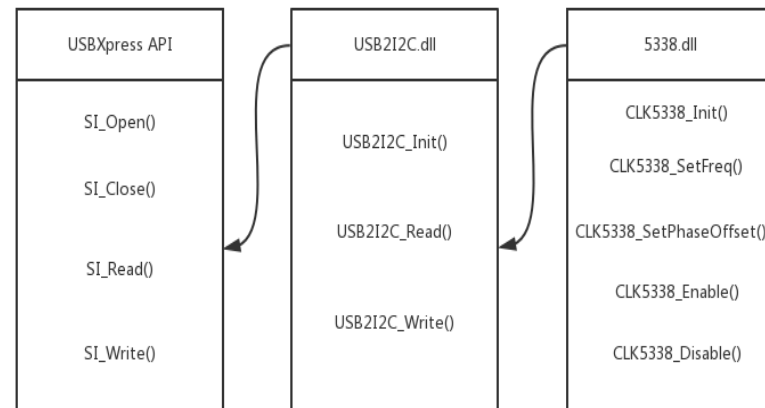
Block diagram of host program