

Low Cost Compact MTCA.4 LLRF System

The MTCA.4 standard becomes more and more popular as a platform for LLRF systems. In standard approach, each system must be equipped with MCH and CPU board, which belongs to system infrastructure. For large systems, cost of infrastructure (chassis, CPU, MCH) is distributed among all used slots, so the real cost-driver are processing and acquisition boards. However, for small systems, which use only 1-2 electronic boards the basic infrastructure cost becomes significant and rises price per used slot to large amounts. The paper presents possible solution to the problem based on 1U MTCA.4 chassis. The chassis is equipped with 2 MTCA.4 compatible slots for processing boards, AMC.1 slot for optional CPU board and built in interface and management part. Several possible configurations of LLRF systems are presented together with cost comparison to standard approach.

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