

Dusan Slavinec - White Rabbit based AMC timing receiver card for GSI/FAIR

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GSI has chosen the White Rabbit based timing system for the FAIR facility. Cosylab has developed several form factors for the timing receivers, including MTCA receivers. The AMC board was recently approved for production by GSI.

A key requirement to implement was that card is operational in MTCA.0, MTCA.4 crates and additionally in the LIBERA platform B, where it provides extra trigger lines to the backplane for Libera equipment.

The project is based on the GSI PCIe form-factor. Cosylab developed schematics and iSystem did layout and production. The prototype boards were successfully tested and we are preparing the production of several hundred units.

We will cover the project timeline in more detail, particularly about the microcontroller code for the MTCA management part and extra provisions for MTCA.4

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