Contribution ID: **7** Type: **Talk**

Synchronization several EtherCAT networks through mTCA

Thursday 3 December 2020 15:30 (15 minutes)

In different application in industry as well research Centre, there is the need to synchronize different EtherCAT networks with high time accuracy. The more precise the time stamp requirements become, the more difficult this task becomes with classical solutions.
By means of a newly developed AMC board, the time signals can be synchronously fed into and read from up to 8 independent EtherCAT networks. A new possibility to connect classical industrial solutions with high performance mTCA systems in a flexible and cost-effective way. This new mTCA solution developed by N.A.T will be used for the first time for the research area at xFEL in Hamburg.

Summary

A new EtherCAT multi-slave solution in AMC formfactor will allow users to connect classical industrial solutions to high performance MicroTCA systems. The talk will provide a comparison of this new AMC to classical solutions and highlight the advantages and benefits for users at the example of the European XFEL.

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Session Classification: Session 8

Track Classification: New Products