

Christian Ganninger - MicroTCA future developments

Thursday 6 December 2018 14:15 (30 minutes)

The Specification for 40G for MTCA has completed all simulations and measurements to define the transfer channels. It has been verified that all available backplane connectors and plugs can be used for 40G transfer with appropriate backplane and board design covering the current requirements of particle accelerator projects. However, voices become louder asking for PCIe Gen 4 and 100G Ethernet. Additionally, the 80W power limitation per slot has been a challenge for several years. Consequently, a revised MTCA specification, breaking these limits needs to be implemented. First simulations and measurements already proof a downward compatible solution is possible allowing current and future AMC's in a Next Generation MTCA Crate. There are also ideas how the power per slot can be significantly improved without changing the whole MTCA concept.

Author: Mr GANNINGER, Christian (nVent)

Session Classification: Session 7

Track Classification: Keynote