

DESY MMC Solutions –New features and more modularity for an optimal AMC management

Thursday 8 December 2022 11:00 (15 minutes)

The DMMC-STAMP SoM (DESY Module Management Controller System on a Module) provides a full management solution for operating a target AMC (Advanced Mezzanine Card®) in a MicroTCA® based ecosystem. Equipped with a pre-installed firmware which is covering all management features that are mandatorily required by the MicroTCA® specifications, the DMMC-STAMP SoM is a ready to use drop in solution. By using the optional DMMC Software Development Kit (DMMC-SDK) users can easily enable additional AMC board specific features like serial-over-IPMI, in-system firmware update or PMBUS™ power management.

For targeting a modern System on a Chip (SoC) based AMC the DMMC-STAMP SoM hardware is capable to implement additional and very useful advanced management features. For example, this can be the exchange of critical MicroTCA system information with the operating system (OS) running on the AMC SoC, the remote access of AMC FPGAs/SoCs via IPMI or a proper OS shutdown sequence before the AMC payload power gets switched off.

This contribution gives a summary of the latest MicroTCA Technology Lab DMMC-STAMP developments for targeting modern System on a Chip (SoC) based AMCs requested by the user's community.

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Session Classification: Session 8

Track Classification: New Products