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Trends that are Influencing Intel Processor based AdvancedMCs

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Historically, an Intel processor based AdvancedMC module was used as the central control station in a MicroTCA system to display status information, provide local storage and to act as a gateway between the other boards in the system and the outside world via a network connection. That's an important function and has become elevated as this board typically can act as the root of trust in a system. To do that we include a variety of security technologies and features that should be of interest given the sensitive nature that the products are controlling.

In addition, more users are using compute intensive Intel processor based AdvancedMCs for local data processing. Whilst Intel CPU only solutions offer significantly less processing capability compared to GPU and FPGA based solutions, they are much easier to program and by using Intel's OneAPI, it is possible to add co-processors like FPGA without code changes. In this type of heterogeneous scenario, OneAPI will optimise the code to use the available processing resources in a similar way to that of OpenVINO which is specific to Artificial Intelligence and Inference at the Edge applications.

Summary

Concurrent Technologies has a variety of Intel processor based AdvancedMC modules and will use the presentation to educate the audience on modern security and processing capabilities.

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