

## A new Zone 3 Class for RF Signals up to 3 GHz in MicroTCA.4

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In MicroTCA.4 the connection between AMC and RTM is realized with a differential pair connector. Transporting high frequency analog signals (> 300 MHz) over the differential pair connector leads to intense crosstalk between the differential channels.

A new type of Zone 3 connection is needed, capable of transporting signals up to 3 GHz. The new analog Zone3 class RF1.0 based on single-ended coaxial connectors will be presented. First measurement data from several

evaluation boards showing the single-ended performance and isolation of the new coaxial connectors will also be presented. The class RF1.0 can be used for direct sampling application feeding RF signals from the RTM to the

AMC side or for RF sampling DAC applications in the opposite direction.

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