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RTM-LAMP: a 12-channel Current Source Power Supply in MicroTCA.4 Form Factor

Thursday 9 December 2021 17:00 (15 minutes)

In order to minimize the latency of Sirius Fast Orbit Feedback (FOFB), a 12-channel current source power supply was designed as a μRTM module. Each channel consists of a linear amplifier operating as current source by means of a digital feedback loop implemented on an FPGA at the AMC board. The amplifier is specified to reach up to 10 kHz small-signal bandwidth on a 3.5 mH inductance magnet and ±1 A full scale. This work will report on the performance figures obtained prior to releasing the design for final production.

Summary

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