Designing with the Xilinx Analog Mixed Signal Solution



Applicable Technologies	Requirements	Contact	
Xilinx® 7 series FPGAs	Basic knowledge in VHDL Knowledge of Xilinx® FPGAs Knowledge of Xilinx® design tool flow	Michael Schwarz P. +49 7664 91313-15 E. info@plc2.de	
Fee (net per person)	Inclusive	Duration	
OL € 1,300	Training material	2 days	
WO € 1,700	Plus beverages during breaks Lunch	2 days	

Workshop

Processing Analog Mixed Signals (AMS) in an FPGA is already feasible today! This course is an introduction to the analog mixed-signal design solution with Xilinx® FPGAs and their associated tools and techniques.

This class' target audience is analog and digital hardware engineers, interested in using different AMS techniques. This course mainly takes advantage of the Xilinx® Analog to Digital Converter (XADC) core. The complete front-to-back design flow is covered. This includes the generation of test signals, binding the different digital processing components, and in particular the analysis of the XADC block. Using a Xilinx® evaluation board with an FMC add-on

card, accompanying exercises assure the different possibilities to be applied practically.

This starts with the simulation of an analog input signal and finishes with a digital analysis of that stimulus in the FPGA design like with e.g., an FFT.

Due to accompanying exercises, the course offers in-depth and practice-oriented training. Attendees of the online live course will do the practical exercises in the afternoon on their own.

XADC debug and monitor

Agenda

AMS overview

LabVIEW design environment

01.

05.

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02.	ADCs and DACs theory	07.	HDL design flow
03.	Xillinx® XADC architecture	08.	Embedded design flow
04.	AMS design flow	09.	Vivado® design flow

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