

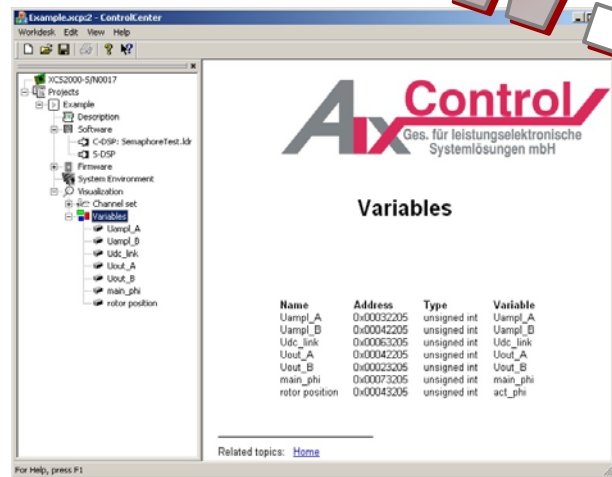
XCS 2000 / XCS 2100 DEVELOPMENT TOOLS

The development process with XCS 2000 Series is efficiently supported by our new Control Center software tool. This is one integrated PC-tool that integrates our former tools AixScope, AixConfigure and the former XC2000CC Control Center.

Control Center

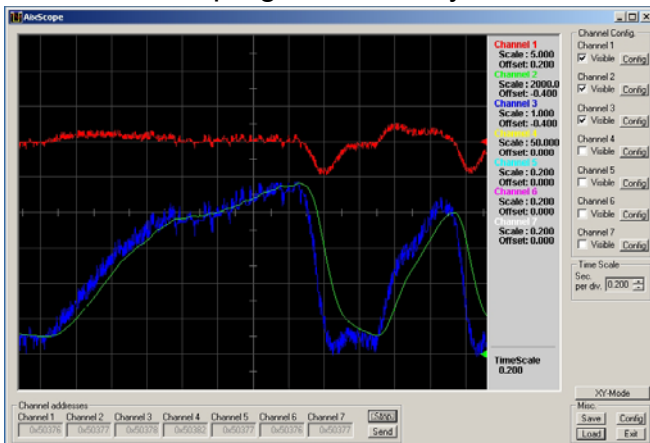
- Integrated download tool for software and firmware to the XCP 2000 and XCP 2100 Processor cards.
- Systems data base to define individual parameters for each system. Allows fast switching between multiple systems.
- Integrated configuration tool allows e.g. changing the IP-address or a so called user's calibration of all analog channels.
- A Project database allows storing of project relevant software parts for a fast switching between multiple projects.
- XML – Parser to analyze variables MAP-file and auto update of variable positions.
- AixScope integration – This tool allows a background debugging of the internal variables and system stages as well as the online modification of control parameters and values via TCP/IP.

NEW!



AixScope - Online Debugging Tool

During a development process it is always useful and often necessary to observe internal variables of a programmable system, to modify some control parameters or to generate signals to test systems response after a step command. It is required that these activities never interfere with the control code and the background communication must be synchronized with the control loop. The AixScope is a powerful online debugging tool, which allows all the mentioned interactions. It communicates via TCP/IP with the DSP board XCP 2000 and gives direct access to all internal and external variables.

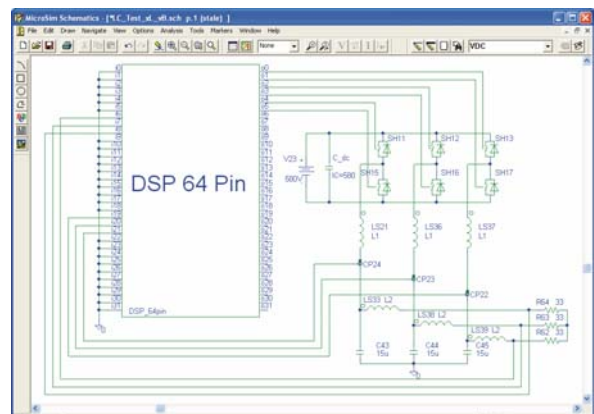


XCM 2000 SIMULATION MODELS

The XCM 2000 simulation models help reducing the development time significantly by evaluating control algorithm behavior in the simulation environments PSpice and Matlab / Simulink (soon also for PSIM and Simplorer). The XCM 2000 models allow execution of C++ control code that is programmed with Microsoft Visual C++ or Visual Studio using library routines for all hardware related functions like analog input or PWM output. The XCM 2000 models support all 32 digital channels, the 8 global signals and the 32 analog channels. In addition, the RS-232 functionality is also supported. The data, sent to the hardware via RS-232, is saved in a file. The model can run in two modes: in ideal or real mode. In real mode, many side effects of the real hardware are simulated, for instance the AD/DA-conversion times, their resolution as well as the time delay caused by the calculation time of the control code. All these side effects are neglected in ideal mode. By using the delivered libraries for all hardware accesses the same control code can be used for simulation and programming of the XCS 2000 Systems without any changes.

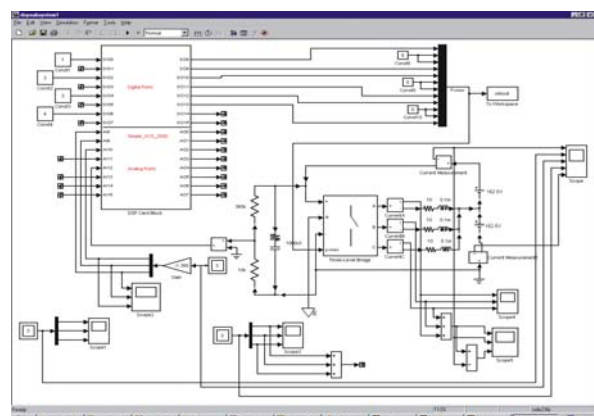
XCM 2010 FEATURES

- For PSpice 8.0 / 10.0
- Supports 32 digital signals w/ on-time direction setting and “real impedance”
- Supports up to 32 analog signals w/ “real impedance” behavior
- Supports serial interface functionality
- **Needs Visual C++ / Visual Studio**
- Direct download facility



XCM 2020 FEATURES

- For Matlab / Simulink 6.5 and higher
- Supports 32 digital signals
- Supports 32 analog ports
- Supports serial functionality
- **Needs Visual C++ / Visual Studio**
- Direct download to System



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