



Rapid control prototyping made easy

The DSP Development Board is designed to enable rapid control prototyping, and to compliment PSIM's PIL simulations and automatic hardware code generation*.

The board contains a DIM-100 connector that will work with any DIM-100 based TI controlCARD. It has the conditioning circuits and offset circuits for analog inputs, and PWM outputs that can be connected directly to gate drive boards.

In addition, it provides inputs for encoder and hall effect sensors and for CAN bus communications. Also, an on-board JTAG emulator is provided so that code can be uploaded without an external emulator.

The board is ready to use out-of-the-box for your projects in switchmode power supplies or motor drives.

Combining the Development Board with PSIM's power electronics simulation, PIL Module, and automatic hardware code generation, you will have both the software and hardware needed to move from simulation to hardware implementation in the fastest time possible.



SPECIFICATIONS

A/D Inputs:	16 (+/-5V inputs)
Digital I/O:	20
PWM Outputs:	12 (6 with 5V, & 6 with 3.3V)
Encoder ABZ Input:	1
Hall Sensor UVW Input:	1
Communication:	USB, SCI serial, SPI, CAN
JTAG:	1 (14-pin)
Upload:	USB or JTAG
Power:	12VDC (power adaptor included)
Dimensions:	6.25 x 4.25 inches

FEATURES & BENEFITS

- ♦ Ready to use for power converter control
- ♦ Supports multiple DSP controlCARDS (F28335, F28035, F28069, F28027)
- ♦ Interface provided for motor control
- ♦ On-board JTAG emulator for easy code uploading
- ♦ Works seamlessly with PSIM's PIL simulation and auto hardware code generation
- ♦ Ideal for learning DSP, teaching/research, and hardware prototyping

* Hardware code generation requires SimCoder and one of the Hardware Targets (F2833x/F2803x/F2806x/F2802x Targets).