

DSPBox

A generic control box for implementing DSP control solutions

Product Features

- Generic controller based on TI DSP for controlling generic devices and systems.
- Multiple input/output channels and communication ports.
- External box design with mechanical adaptors to integrate in electrical cabinets.

Applications

- Developing code for TI DSP with peripherals and communication ports integrated
- Controlling generic power electronic devices & interfacing communications
- Controlling NRG.Lab converters customized for research and development applications
- Typhoon HIL compatible
- Matlab and PSIM-PIL code generator compatible



DSPBox

TI 28335 Defino, TI 28377 Dual-Core and Piccolo compatible

Input/Output Channels

- 4 general purpose digital input (TTL-5V)
- 4 general purpose digital output (TTL-5V)
- 4 external enable/fault connectors
- 7 output relays NO+NC, 24V_{MAX}

Measurements

- 4 Generical inputs $\pm 10V$
- 3 AC Current measurement channels $\pm 10V$
- 1 DC Current measurement channel $\pm 10V$
- 2 DC Voltage measurement channels (0-1kV)
- 6 AC Voltage measurements 250Vrms (2 x 3ph)
- 1 NTC 10k temperature sensor

Mechanical Enclosure

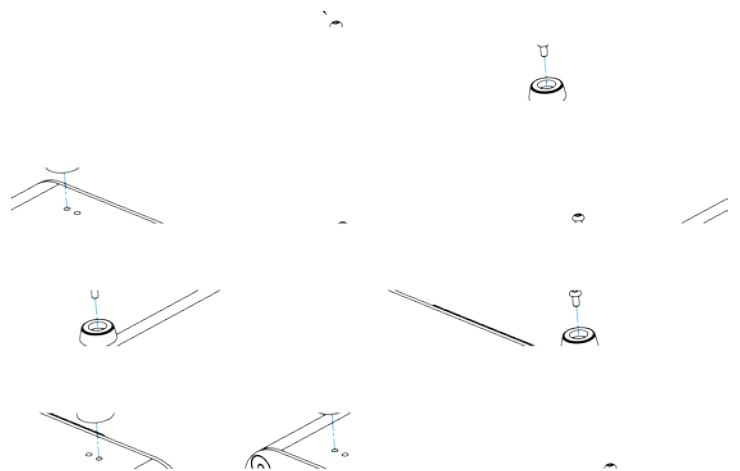
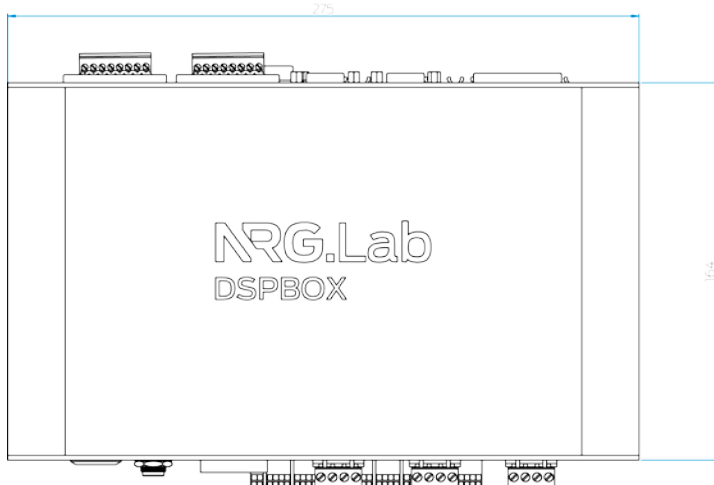
- Aluminium enclosure
- Desktop and backplane adaptors

Fiber Optic Channels

- 6 PWM channels
- 2 synchronization channels (in/out)
- 2 fault channels (in/out)

Communications

- SPI port (DB9 and fiber optic)
- CAN bus (DB9)
- RS-232 & RS-485
- JTAG connector



DSPBox

Ready to plug it and program your application?

Examples and guides

- Examples available for programming the DSPBox using Matlab Simulink and PSIM
- Simulation toolbox available for Typhoon HIL RT Simulators
- Configuration files and examples for Code Composer Studio



NRG.Lab

NRG.Lab a UPC spin-off

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