



JTAG Isolator

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The J-Link JTAG Isolator can be connected between J-Link ARM and any ARM-board that uses the standard 20-pin JTAG-ARM connector to provide electrical isolation. This is essential when the development tools are not connected to the same ground as the application. It is also useful to protect the development tools from electrical spikes that often occur in some applications, such as motor control applications. Another typical field of application is development of products with sensors or other analog circuitry, in which case the target hardware is protected from electrical noise originating from the development PC.

This product is compatible with J-Link ARM, J-Link ARM Pro and Flasher ARM.

Power supply

Both sides, target and emulator, are totally isolated from each other and separately powered. The target side draws power from pins 1 or 2, the emulator side draws power from pin 19.



Features

- 1kV DC isolation
- 3.3V and 5V target operation supported
- Powered from emulator and target
- JTAG standard 20-pin connection supporting TRST, TDI, TMS, TCK, RTCK, TDO and RESET signals
- Power consumption on target side: < 50mA
- JTAG frequency: Up to 4MHz
- 3 LEDs to indicate emulator power, target power and target RESET

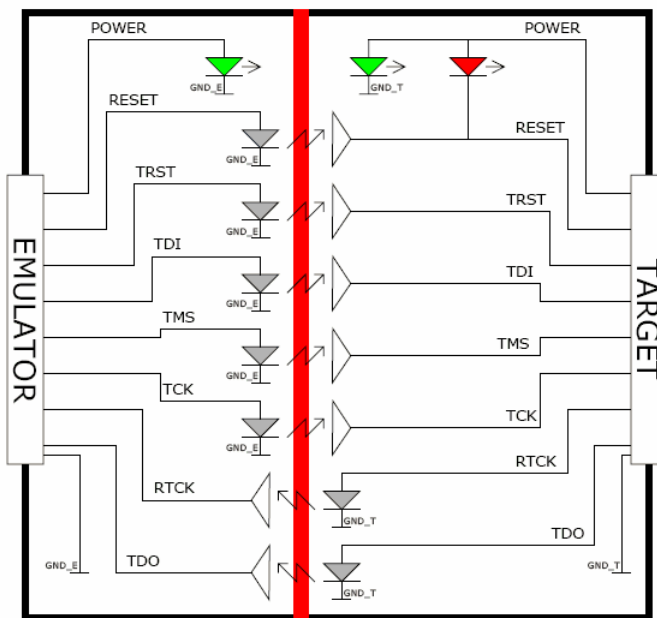
Connectors and indicators

The JTAG Isolator uses high speed optocouplers that allow a very low propagation time between input and output. It comes with the following connectors and indicators:

- 20-pin female EMULATOR connector which can be plugged directly into J-Link
- 20-pin male TARGET connector for connection of the target cable
- Green LED indicating power on the emulator side
- Green LED indicating power on the target side
- Red LED indicating RESET

Block diagram

The following functional block diagram illustrates the functional connections between the emulator and target.



Target connector

The following picture shows the target side pinout of the J-Link JTAG Isolator:

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