

J-Trace Isolator



Overview

The J-Trace Isolator can be connected between a J-Trace PRO and any Arm board that uses the standard 19-pin Cortex-M connector. It provides electrical isolation while keeping high speed trace capabilities.

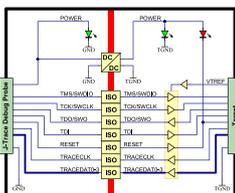
This is essential when the development tools are not connected to the same ground as the application. It also protects the development tools from electrical spikes that often occur in some applications, such as motor control. Another typical field of application is the development of products with sensors or other analog circuitry. In this case, the J-Trace Isolator protects target hardware from electrical noise originating from the development PC. The J-Trace Isolator is compatible with J-Trace PRO V2 or later.

Connectors and indicators

The J-Trace Isolator uses high speed digital isolators that allow a very low propagation time between input and output. It comes with the following connectors and indicators:

- Standard .05" 19-pin Cortex-M male EMULATOR connector which needs to be connected to the emulator cable
- Standard .05" 19-pin Cortex-M 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



Key features

- ETM trace pins fully supported up to 75 MHz trace clock
- 1kV DC isolation
- 1.2V - 5V target operation supported
- Powered from emulator, only few microamps (< 25 µA) drawn from target
- JTAG standard 19-pin connection supporting TDI, TMS, TCK, TDO, RESET and SWD/SWO signals
- SWD frequency: Up to 4 MHz
- JTAG frequency: Up to 50 MHz
- 3 LEDs to indicate emulator power, target power and target RESET

Package content

- J-Trace Isolator
- 20-pin 0.5" ribbon cable



Order number

8.07.10