



What's Included

- 14-pin Isolation Adapter
- Quick Start Guide
- Warranty and Product Registration Information

Revision 2.0 Now Supporting 1.8 volt Targets with 5K V_{rms} Isolation!

Blackhawk Isolation Adapter JTAG Isolation Protection for your Equipment (14-pin TI)

Features

- Supports I/O voltages of 1.8v/3.3v/5.0v targets
- Works with TI XDS Emulators and Debug probes, including XDS100v2, XDS110, XDS200, XDS510, XDS560 and XDS560v2-class emulators
- 25kV/μs Common Mode Transient Immunity
- Withstands ±10kV Surge per IEC 61000-4-5
- Voltage Isolation: 5K V_{rms}
- PCB isolation clearance and creepage distance of 6mm
- High Speed operation: up to 20MHz TCK
- Powered by target board's JTAG pin 5 (TVD)
- Current consumption is 60-80mA nominal (100mA max)
- **RoHS** Compliant

Pin Definitions

PIN	SIGNAL	PIN	SIGNAL
1	TMS	2	nTRST ¹
3	TDI	4	TDIS ²
5	TVD	6	KEY ³
7	TDO	8	GND
9	RTCK	10	GND
11	TCK	12	GND
13	EMU0	14	EMU1

¹ Signal is active low.

² Target Disconnect (GND).

³ Keyed, no pin.

The **Blackhawk Isolation Adapter** is a device that connects between your JTAG Emulator and the JTAG connector on your target board. The adapter is designed to minimize and protect connected devices (PC/Emulator/Target) from ground loop voltage, harsh environments and new, untested designs.

The isolation adapter is a straight forward, easy to use product. Just connect it between your emulator's JTAG socket and the target board's header. These adapters can be used with most JTAG emulators, including XDS100, XDS110, XDS200, XDS510, XDS560 and XDS560v2 models.

The adapter does expect the target board to provide up to 100 mA of 1.8, 3.3 or 5.0 volts on JTAG pin 5 (TVD) to power the adapter's components.

The adapter can also be used with a pin converter in the event that your JTAG connections do not match up identically with either of these models.

We also offer a 20-pin cTI version (3.3V-5.0V) for hardware using that JTAG connection.

Blackhawk JTAG Products are available from a worldwide network of industry resellers and distributors.

Ordering Information

Part Number: BH-ADP-ISO14-2

SKU: 12134B

For more information, or to order this product online, please visit our website at www.blackhawk-dsp.com

Learn More: For more information about Blackhawk products, please visit www.blackhawk-dsp.com

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