JTAG Isolation Adapter for TMS320 / 470 / 570 Devices from Texas Instruments

ADA-ISO-TI14 is a full isolation JTAG probe for JTAGjet emulators which reduces the chance of damage to the emulator associated with ground loops, voltage spikes, electrostatic discharge (ESD) and noise on power and ground lines generated by high-current motors and other machinery.

The probe can be powered from the target board (default) or from an external isolated 5V power supply (optional) if the target cannot deliver the extra 100mA needed by the probe.
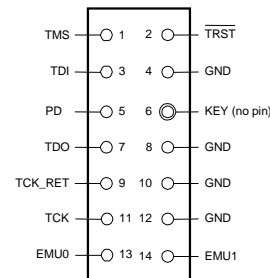
Features:

- ❑ Supports all TMS320C2000, C5000, C6000, OMAP, DM and TMS470 / 570 devices
- ❑ Operating JTAG voltage from 3.3V to 5V
- ❑ Galvanic isolation up to 1000 V (peak)*
- ❑ 50kV/μs transient immunity (typ.) on JTAG lines
- ❑ ESD protection of 8kV on contact and 15kV air discharge
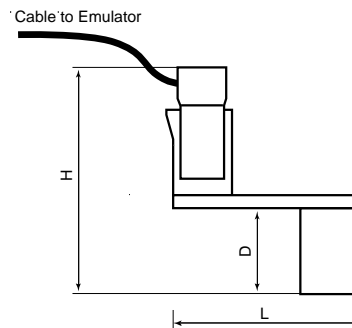- ❑ Maximum JTAG clock rate up to 15MHz

Important Notice about Isolation & Safety

* Isolation of 1000V cannot be provided for more than 1 sec. The continuous, safe normal operating voltage across the isolation barrier is 0 - 60VDC. The isolation voltage represents a measure of immunity to transient voltages and the adapter should never be used as an element of a safety isolation system. The adapter can be expected to function correctly with 300 volts offset applied continuously across the isolation barrier, but then the circuitry on both sides of the barrier must be regarded as operating at an unsafe voltage and further isolation/insulation systems must be used according to safety standard requirements.

Signum Systems will not be liable for any damages resulting from usage of this adapter.

TMS	1	2	$\overline{\text{TRST}}$
TDI	3	4	GND
PD	5	6	KEY (no pin)
TDO	7	8	GND
TCK_RET	9	10	GND
TCK	11	12	GND
EMU0	13	14	EMU1

14-pin TI-style JTAG pinout

Cable to Emulator

Length L = 1.25 in
Width = 1.14 in
Height H = 0.95 in
Depth D = 0.30 in

Ordering Information

Part Number	Description
ADA-ISO-TI14	JTAG isolation probe for TI TMS320/470/570 devices, 14-pin.

SIGNUM SYSTEMS CORP.
1211Flynn Rd, #104, Camarillo, CA 93012
Phone: (805) 383-3682
Fax: (805) 383-3685
eStore: *www.signum.com/estore.htm*

Toll Free: (800) 838- 8012
Email: sales@signum.com
Web: www.signum.com