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TriMedia/Nexperia JTAG

The MDS TriMedia/Nexperia JTAG interface card is designed to assist in debugging hardware based on the Philips Nexperia (TriMedia) family of processors. It provides the interface between a PC running the Nexperia debugger software and hardware such as MDS' DVE-2 embedded networked development board or a user's own hardware design.

The JTAG card supports source level debugging over the JTAG port which is built into every TriMedia family member.

The TM-JTAG card is installed in the PCI bus of a PC. LVDS buffers are used between the PC and a small pod to improve signal fidelity and allow for up to a 2 meter cable. The pod converts the LVDS signals to 3.3V logic compatible signals and is connected to a Nexperia JTAG port over four signal lines.

The pod includes a power and activity LEDs to verify correct operation.

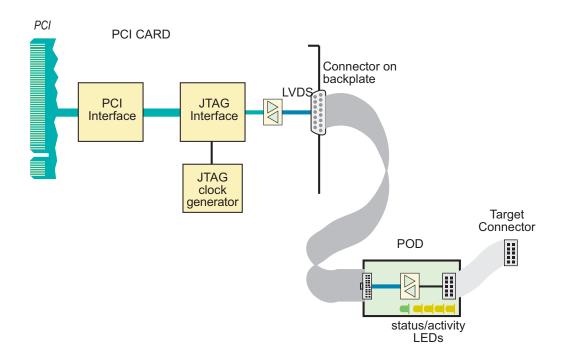


For software development and debug of embedded TriMedia/ Nexperia based hardware

The source level debugger software runs on the PC, communicating with the JTAG interface hardware through a device driver. The TriMedia target system runs a debug monitor which monitors and responds to activity over the JTAG interface.

Features:

- easy to install
- uses standard Nexperia debugger software
- supports source level debugging
- fast downloading
- LVDS buffers for signal integrity
- 15 MHz TCK clock frequency with ability for other clock rates



Nexperia JTAG: source level debugging of embedded Nexperia systems

Ordering information (order code is in Italics)

Note that the TM-JTAG-PCI and NDK is included in some MDS product bundles.

TM-JTAG-PCI: PCI TriMedia/Nexperia JTAG hardware.

- PCI card
- Diagnostic software and manual on CD
- Cables: PCI card to pod, pod to target (keyed), pod to target (unkeyed)
- Pod
- 90 day getting started support

NDK: Philips Nexperia Development Kit

- Compiler, linker, assembler
- Debugger
- Core libraries
- pSOS
- Utilities and examples

TM-JTAG-PCI-STD 90 Day Startup Support (inc. with *TM-JTAG-PCI*)

- Help with installation of hardware/software.
- Problems in installation.
- How to use/run hardware or software that comes with the NDK.

Please see the MDS website for a copy of the Support data sheet, which has full details.

Related items

Please visit http://www.mds.com for more information on these and other software products to speed your design to market.

🐛 tmdbg - F:\wk\TRIMEDIAMDS\hello\JTAG\2tonegen.out	_ B ×
<u>File Edit View Options Debug pSOS Windows Help</u>	
😰 👷 🛪 🗢 🧈 👟 🔝 🔕 🚺 📑 🕸 🕲 🛇 💭 🗾 🕹 Ep count 1 🦷 cpu #0 stopped at 2tonegen.c:124 in main()	0x00007900
Source file: 2tonegen.c 💌 Function:	
F:wk/tRIMEDIAMDS/hello/JTAGA2tonegen.c (cpu #0)	
•)	
/**************************************	
* Main sets DP buffer size, outputs header, invokes checklrg	
* to drive output	
*	
✤ int	
main(int argc, char **argv) (
/* print banner */	
DPsize(1024 * 1024);	
DP((">entering audio sinewave program, V1.0\n")); printf("sine: audio sinewave program, V1.0\n");	
<pre>the interpretation of the interpretatio</pre>	
tmHelpReportSystem(stdout);	
checklrgcv(argc, argv);	
Messages / Console	
downloading program	
preparing downloadable memory image done	
sent load addr: 0x840 sent code size: 0x4c3a4	
seno coue sizzi. Oxfosar	
bytes: 31228	
microseconds per byte: 3.202788	
target started, waiting for it to initialize	👔 Target Info (cpu #0) 🔔 🗙
done.	No Host (JTAG) - Big Endian
stopped at addr: 0x00007900, line 124, main() in "2tonegen.c"	Memory Physical Size
B 124* int tmdbg>	SDRAM 0x0 0x800000
	MMIO 0xefe00000 0x200000
GoTo: Find: line 129, column 53	

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Nexperia is a trademark of Philips Semiconductor, Inc.



Nexperia/TriMedia Data Sheet rev 1a Sep 02 PRELIMINARY

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