Engineering Design Team (EDT) - Certificate of Volatility

Model:	Part Number:	Address:
PCI CDa (all variations & revisions)	019-01854, 019-01960, 019-02039, 019-02216, 019-02219, 019-02234, 019-11854, 019-12219, 019-14879	**Engineering Design Team, Inc.** 3423 NE John Olsen Avenue Hillsboro, OR 97124 U.S.A. +1-503-690-1234 or 1-800-435-4320

Volatile Memory

Does the device contain volatile memory (memory whose contents are lost when power is removed)?
☑ Yes ☐ No If yes, describe the type, size, function, and steps to clear the memory below

Type (SRAM, DRAM, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:
FPGA: Xilinx XC2S200-6FG456C	5292 logic cells. 56Kbit Block RAM.	☐ Yes ☑ No	DMA logic, RAM used as FIFOs for buffering. Commonly referred to as the "PCI FPGA".	Power down
FPGA: Xilinx XC2S300E-6FG456C or XC2S600E-6FGG456C	6912 or 15552 logic cells. 64K or 288K bits Block RAM.	☑ Yes ☐ No	Data processing logic. Commonly referred to as the "UI FPGA".	Power down
SRAM: IDT 71V65603S100PFG	9Mbit	☐ Yes ☑ No		Power down

Non-Volatile Memory

Does the device contain non-volatile memory (memory whose contents are retained when power is removed)?
☑ Yes ☐ No If yes, describe the type, size, function, and steps to clear the memory below

Type (Flash, EEPROM, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:
CPLD: Xilinx XC9572XL-10VQG64C	72 macrocells	☐ Yes ☑ No	Configuration control: configures the "PCI FPGA" from flash on board power up	JTAG. Contact EDT.
NOR Flash: Cypress AM29LV081B-70ED	8Mbit	☑ Yes ☐ No	Configuration memory: stores "PCI FPGA" configuration bitfiles	EDT's pciload program. Contact EDT.

Mass Storage

Does the device contain mass storage memory (Hard Disk Drive, Tape Backup)?
☐ Yes ☑ No If yes, describe the type, size, function, and steps to clear the memory below

Type (HDD, Tape, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:
		☐ Yes ☐ No		

USB
Does the item accept USB input and if so, for what purpose (i.e. Print Jobs, device firmware updates, scan upload)? ☐ Yes ☑ No If yes, describe the type, size, function, and steps to clear the memory below
Can any data other than scan upload be sent to the USB device)? ☐ Yes ☑ No If yes, describe the type, size, function, and steps to clear the memory below

RF/RFID	
Does the item use RF or RFID for receive or transmit of any data including remote diagnostics (e.g. Cellular phone, Bluetooth)? ☐ Yes ☑ No If yes, describe the type, size, function, and steps to clear the memory below	
Purpose:	
Frequency:	Bandwidth:
Modulation:	Effective Radiate Power (ERP):
Specifications:	

Other Transmission Capabilities	
Does the device employ any other methods of non-wired access to transmit or receive any data whatsoever (e.g. anything other than standard hard wired TCP/IP, direct USB, or parallel connections)? ☐ Yes ☑ No If yes, describe below	
Frequency:	Bandwidth:
Modulation:	Effective Radiate Power (ERP):
Specifications:	

Other Capabilities
Does the device employ any other method of communications such as a Modem to transmit or receive any data whatsoever? ☑ Yes ☐ No If yes, describe below:
The device's purpose is to receive and/or transmit serial or parallel digital data across using the LVDS or RS422 signaling standards, DMA'ing to and/or from the host computer.
Specifications: With one DMA channel: up to 210 Mbytes/s. Sixteen DMA channels: up to 70Mbits/s/channel.

Author Information			
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