



NATIONAL INSTRUMENTS PXIe-7902 Ethernet Test Solution User Guide

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NATIONAL INSTRUMENTS PXIe-7902 Ethernet Test Solution



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PXIe-7902

Manufacturer

National Instruments

Board Assembly Part Numbers

(Refer to Procedure 1 for identification procedure):

Part Number and Revision	Description
154373D-01L or later	PXIe-7902

Volatile Memory

Target Data	Type	Size	Battery Backup	User ¹ Accessible	System Accessible	Sanitization Procedure
Data storage during VI Execution	DRAM	2GB	No	Yes	Yes	Cycle Power
Temp storage for FPGA Image	SDRAM	128MB	No	No	Yes	Cycle Power
Field Programmable Gate Array	Virtex-7 Block RAM	37,080Kb	No	Yes	Yes	Cycle Power

Non-Volatile Memory (incl. Media Storage)

Target Data	Type	Size	Battery Backup	User Accessible	System Accessible	Sanitization Procedure
Board revision, clocking and voltage constants	EEPROM	2 Kb	No	No	Yes	None
Bitfile to FPGA	CPLD	4000 LUTs 92Kb RAM	No	No	Yes	None
User FPGA Bitfile	Flash	512MB x2	No	Yes	Yes	Procedure 2

¹ Refer to Terms and Definitions section for clarification of User and System Accessible

Procedures

Procedure 1 – Board Assembly Part Number identification:

To determine the Board Assembly Part Number and Revision, refer to the label applied to the surface of your product. The Assembly Part Number should be formatted as “P/N: #####a-##L.

Procedure 2 – User FPGA Bitfile:

The User FPGA Bitfile can be cleared by using the RIO Device Setup Utility. To clear the User FPGA bitfile, complete the following steps:

1. Open NI MAX
2. Find and select your device
3. Click “Update Firmware” to load a blank, factory bitfile to the device or click “Erase Firmware” to clear whatever bitfile is currently on the device.

Terms and Definitions

Cycle Power:

The process of completely removing power from the device and its components and allowing for adequate discharge. This process includes a complete shutdown of the PC and/or chassis containing the device; a reboot is not sufficient for the completion of this process.

Volatile Memory:

Requires power to maintain the stored information. When power is removed from this memory, its contents are lost.

This type of memory typically contains application specific data such as capture waveforms.

Non-Volatile Memory:

Power is not required to maintain the stored information. Device retains its contents when power is removed.

This type of memory typically contains information necessary to boot, configure, or calibrate the product or may include device power up states.

User Accessible:

The component is read and/or write addressable such that a user can store arbitrary information to the component from the host using a publicly distributed NI tool, such as a Driver API, the System Configuration API, or MAX.

System Accessible:

The component is read and/or write addressable from the host without the need to physically alter the product.

Clearing:

Per NIST Special Publication 800-88 Revision 1, “clearing” is a logical technique to sanitize data in all User Accessible storage locations for protection against simple non-invasive data recovery techniques using the same interface available to the user; typically applied through the standard read and write commands to the storage device.

Sanitization:

Per NIST Special Publication 800-88 Revision 1, “sanitization” is a process to render access to “Target Data” on the media infeasible for a given level of effort. In this document, clearing is the degree of sanitization described.

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Documents / Resources

	NATIONAL INSTRUMENTS PXIe-7902 Ethernet Test Solution [pdf] User Guide 154373D-01L or later, PXIe-7902, PXIe-7902 Ethernet Test Solution, Ethernet Test Solution, Test Solution, Solution
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References

- [Product Documentation - NI](#)
- [PXIe-7902 National Instruments PXI High-Speed Serial Instrument | Apex Waves](#)