

NATIONAL INSTRUMENTS PXI-2532B High-Density Multiconfiguration Matrix Switch Module Owner's Manual



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Letter of Volatility
PXI/PXIe-2531/32/32B

Manufacturer: National Instruments

Board Assembly Part Numbers (Refer to Procedure 1 for identification procedure):

Part Number and Revision	Description
199391A-01L or later	PXI-2531
190982A-01 or later	PXI-2532
153874A-01L or later	PXI-2532B
150040A-01L or later	PXIe-2531
198534A-01 or later	PXIe-2532
153875A-01L or later	PXIe-2532B

Volatile Memory

Target Data	Type	Size	Battery Backup	User1 Accessible	System Accessible	Sanitization Procedure
Relay scanlists	SRAM	128 KB	No	No	Yes	Cycle Power
Relay counts, states	FPGA Block RAM	150 KB	No	No	Yes	Cycle Power

Non-Volatile Memory (incl. Media Storage)

Target Data	Type	Size	Battery Backup	User1 Accessible	System Accessible	Sanitization Procedure
Device configuration	Flash		No			
• PCI configuration data, and serial number		4Mb		No	Yes	None
• Relay module config, and relay cycle counts		4Mb		No	Yes	None
Relay drivers	CP LD	128 Macrocells	No	No	Yes	None

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"

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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Contact: 866-275-6964
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Documents / Resources

	<p>NATIONAL INSTRUMENTS PXI-2532B High-Density Multiconfiguration Matrix Switch Module [pdf] Owner's Manual PXI-2531, PXI-2532, PXI-2532B, PXIe-2531, PXIe-2532, PXIe-2532B, PXI-2532B High-Density Multiconfiguration Matrix Switch Module, High-Density Multiconfiguration Matrix Switch Module, Multiconfiguration Matrix Switch Module, Matrix Switch Module, Switch Module</p>
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References

- [NI Product Documentation - NI](#)
- [PXIe-2532B National Instruments PXI Matrix Switch Module | Apex Waves](#)