



# NATIONAL INSTRUMENTS PXI-2585 Multiplexer Switch Module User Guide

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## NATIONAL INSTRUMENTS PXI-2585 Multiplexer Switch Module



**Manufacturer:** National Instruments

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

Part Number and Revision	Description
191821A-01 or later	PXI-2585
191822A-01-01L or later	PXI-2586

## Volatile Memory

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

## Non-Volatile Memory (incl. Media Storage)

Target Data	Type	Size	Battery Backup	User 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		4 Mb		No	Yes	None
Relay drivers	CPLD	64 Macrocells	No	No	Yes	None

## 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. The device retains its contents when power is removed. This type of memory typically contains the 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 about 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 written 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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Definitions section for clarification of User and System Accessible

## Documents / Resources



**[NATIONAL INSTRUMENTS PXI-2585 Multiplexer Switch Module](#)** [pdf] User Guide  
PXI-2585, PXI-2586, PXI-2585 Multiplexer Switch Module, Multiplexer Switch Module, Switch M  
odule, Module

## References

- [NI Product Documentation - NI](#)
- [PXI-2585 National Instruments Multiplexer Switch Module | Apex Waves](#)

Manuals+.