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Manufacturer: National Instruments

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

Part Number and Revision	Description
153589D-01L and later revisions	PXIe-4112 Dual Output Power Supply
153589D-02L and later revisions	PXIe-4113 Dual Output Power Supply

Volatile Memory

			Battery	User ¹	System	Sanitization
Target Data	Туре	Size	Backup	Accessible	Accessible	Procedure
Digital logic controller	FPGA with	936 Kb	No	No	Yes	Cycle Power
	Block RAM					
Channel controller	SRAM	6 KB (x2)	No	No	Yes	Cycle Power
Chamiler controller	SICAN	0 KD ($\lambda 2$)	110	110	103	Cycle

Non-Volatile Memory (incl. Media Storage)

Target Data	Туре	Size	Battery Backup	User Accessible	System Accessible	Sanitization Procedure
Device configuration	Flash	1 Mb	No			
PCI configuration data				No	Yes	None
• FPGA configuration data				No	Yes	None
• Calibration data ²				No	Yes	None
Calibration metadata				Yes	Yes	Procedure 2
Power up sequencing				No	Yes	None
Channel Controller	Flash	32 KB (x2)	No	No	Yes	None

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

 $^{^{2}}$ Calibration constants that are stored on the device include information for the device's full operating range. Any implications resulting from partial self-calibration can be eliminated by running the full self-calibration procedure.



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 – Calibration Information EEPROM (Calibration Metadata):

The user-accessible areas of the Calibration Information flash are exposed through a calibration Applications Programming Interface (API) in LabVIEW. To clear the Calibration Metadata area, complete the following steps:

- 1. To clear the calibration password, use the niDCPower Change Ext Cal Password.vi to overwrite the current password of the device you wish to clear.
- 2. To clear the user-defined information, use the niDCPower Set Cal User Defined Info.vi to overwrite the current user-defined information of the device you wish to clear.



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.