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cDAQ-9181

Manufacturer: National Instruments

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

Part Number and Revision	Description
150227E-02L or later	cDAQ-9181
152778D-01L or later	cDAQ-9184
190672G-01L or later	cDAQ-9188
190672G-45L or later	cDAQ-9188XT

Volatile Memory

<i>Target Data</i>	<i>Type</i>	<i>Size</i>	<i>Battery Backup</i>	<i>User¹ Accessible</i>	<i>System Accessible</i>	<i>Sanitization Procedure</i>
System memory	SDRAM	64 MB	No	No	Yes	Cycle Power

Non-Volatile Memory (incl. Media Storage)

<i>Target Data</i>	<i>Type</i>	<i>Size</i>	<i>Battery Backup</i>	<i>User Accessible</i>	<i>System Accessible</i>	<i>Sanitization Procedure</i>
Device configuration	Flash	32 MB				
• Boot code			No	No	Yes	None
• User configurations			No	Yes	Yes	Procedure 2
Boot code	Flash	1 MB	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, check the top left corner of the white label on the bottom of the module. The Assembly Part Number should be formatted as “P/N: 150227a-02L” for the cDAQ-9181, “P/N: 152778a-01L” for the cDAQ-9184, “P/N: 190672a-01L” for the cDAQ-9188, or “P/N: 190672a-45L” for the cDAQ-9188XT, where “a” is the letter revision of the assembly (e.g. D, E, F...).

Procedure 2 - Factory Reset:

User configuration information stored on flash memory can be reset to factory default with the following steps:

Press the reset button for five seconds or longer. The STATUS LED will turn on once 5 seconds have elapsed. When released, the device reboots into factory default mode, which returns the chassis user configuration to the factory-set default values.

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.