COMPREHENSIVE SERVICES

We offer competitive repair and calibration services, as well as easily accessible documentation and free downloadable resources.

SELL YOUR SURPLUS

We buy new, used, decommissioned, and surplus parts from every NI series. We work out the best solution to suit your individual needs.

〜 Sell For Cash   〜 Get Credit   〜 Receive a Trade-In Deal

OBSOLETE NI HARDWARE IN STOCK & READY TO SHIP

We stock **New, New Surplus, Refurbished,** and **Reconditioned** NI Hardware.

APEX WAVES

Bridging the gap between the manufacturer and your legacy test system.

📞 **1-800-915-6216**

🌐 **www.apexwaves.com**

✉ **sales@apexwaves.com**

Request a Quote

✉ **CLICK HERE**   **PXI-8840**

Manufacturer: National Instruments

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

Part Number and Revision	Description
156968A-012L or later	**NI PXI-8840, Duo-Core, Localized OS**
156968A-112L or later	**NI PXI-8840, Duo-Core, Win 7 (64-BIT)**
156968A-912L or later	**NI PXI-8840, Duo-Core, Win 7 (32-BIT)**
156968F-011L or later	**NI PXI-8840, Duo-Core, Localized OS, No Ecard**
156968F-111L or later	**NI PXI-8840, Duo-Core, Win 7 (64-BIT), No Ecard**
156968F-211L or later	**NI PXI-8840, Duo-Core, Win 10 Pro (64-BIT) , No Ecard**
156968F-251L or later	**NI PXI-8840, Duo-Core, Win 10 Pro (64-BIT), No Ecard, Simplified Chinese**
156968F-311L or later	**NI PXI-8840, Duo-Core, Win IOT, No Ecard**
156968F-351L or later	**NI PXI-8840, Duo-Core, Win IOT, No Ecard, Simplified Chinese**
158686A-011L or later	**NI PXI-8840 Quad-Core, Localized OS, No Ecard**
158686A-012L or later	**NI PXI-8840 Quad-Core, Localized OS, Ecard**
158686A-111L or later	**NI PXI-8840 Quad-Core, Win 7 (64-BIT), No Ecard**
158686A-112L or later	**NI PXI-8840 Quad-Core, Win 7 (64-BIT), Ecard**
158686A-211L or later	**NI PXI-8840 Quad-Core, Win 10 Pro (64-BIT), No Ecard**
158686A-251L or later	**NI PXI-8840 Quad-Core, Win 10 Pro (64-BIT), No Ecard, Simplified Chinese**
158686A-311L or later	**NI PXI-8840 Quad-Core, Win IOT, No Ecard**
158686A-351L or later	**NI PXI-8840 Quad-Core, Win IOT, No Ecard, Simplified Chinese**

Volatile Memory

Target Data	Type	Size	Battery Backup	User[1] Accessible	System Accessible	Sanitization Procedure
Processor Data	DDR3L SDRAM	4 or 8 GB	No	Yes	Yes	Cycle Power
PCH Real Time Clock (RTC)	CMOS RAM	256B	Yes	Yes	Yes	Procedure 2

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

Target Data	Type	Size	Battery Backup	User Accessible	System Accessible	Sanitization Procedure
Power Sequence & Data Logic	CPLD	2112 LUTs	No	No	Yes	None
Secondary Ethernet Port Firmware.	SPI Flash	0.5MB	No	No	Yes	None
BIOS Configuration	Flash	16MB	No	Yes	Yes	Procedure 3
GPIB Configuration	EEPROM	32KB	No	No	Yes	None
Primary Storage	Magnetic Disk	80GB+	No	Yes	Yes	Procedure 4

---

[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 – PCH Real Time Clock (RTC), CMOS RAM:
To clear the battery-backed PCH Real Time Clock (RTC) CMOS RAM, use one of the following steps:
1. First method:
   a) Power off the chassis.
   b) Remove the controller from the chassis.
   c) Press the 'Clear CMOS' button (SW1) shown in the figure for 2 to 3 seconds.
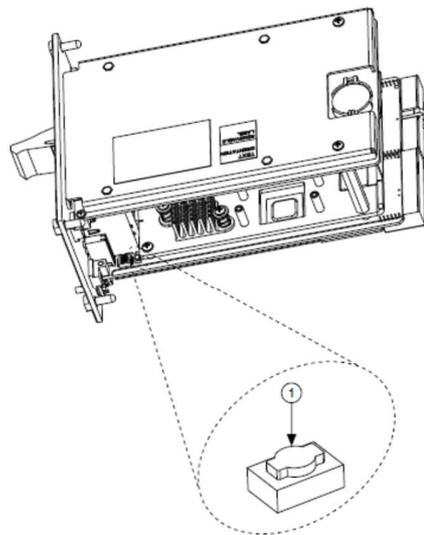
1. Push-Button Switch SW1

   d) Wait for 10 seconds.
   e) Reinstall the controller in the chassis.
2. Second method:
   a) Power off the chassis.
   b) Remove the controller from the chassis.
   c) Remove the coin-cell battery and wait for more than 10 seconds.
   d) Reinstall the battery.
   e) Reinstall the controller in the chassis and power up as usual.

Procedure 3 – BIOS Configuration Flash:
To clear the user-accessible information in the BIOS Flash, perform a factory reset within BIOS setup.

Procedure 4 – Primary Storage Magnetic Disk/ Solid State Drive (SSD):
There are several alternatives for sanitizing the Primary Storage Magnetic Disk's contents. To sanitize the drive, perform one of the following steps:
1. Clear the disk using a commercially available utility for overwriting magnetic disk drives.
2. Remove the disk and apply sanitization procedures acceptable to your organization. You can also replace the disk with a removable one so that the stored data can be disassociated from the controller at any time.

May 2019
374590B-01 Rev 003

Notice: This document is subject to change without notice.
For the most recent version, visit ni.com/manuals.

Contact: 866-275-6964
support@ni.com

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.

May 2019
374590B-01 Rev 003

Notice: This document is subject to change without notice.
For the most recent version, visit ni.com/manuals.

Contact: 866-275-6964
support@ni.com