**Manuals+** — User Manuals Simplified.

# NATIONAL INSTRUMENTS PXI-8432-2 High-Performance Isolated 2-Port Serial Interface Instruction Manual



**NATIONAL INSTRUMENTS PXI-8432-2 High-Performance Isolated 2-Port Serial Interface Instruction Manual**

**Manufacturer:** National Instruments

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

| Part Number and Revision | Description |
|---|---|
| 188825C-0xL or later | PCI-8430/2, PCI-8431/2 |
| 191868B-0xL or later | PCI-8432/2, PCI-8433/2 |
| 188829B-0xL or later | PCI-8430/4, PCI-8431/4 |
| 191871C-0xL or later | PCI-8432/4, PCI-8433/4 |
| 189564C-0xL or later | PXI-8430/2, PXI-8431/2 |
| 191050C-0xL or later | PXI-8432/2, PXI-8433/2 |
| 189675C-0xL or later | PXI-8430/4, PXI-8431/4 |
| 191874B-0xL or later | PXI-8432/4, PXI-8433/4 |

**Volatile Memory**

| Target Data | Type | Size | Battery | User1 | System | Sanitization |
|---|---|---|---|---|---|---|
| | | | Backup | Accessible | Accessible | Procedure |

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

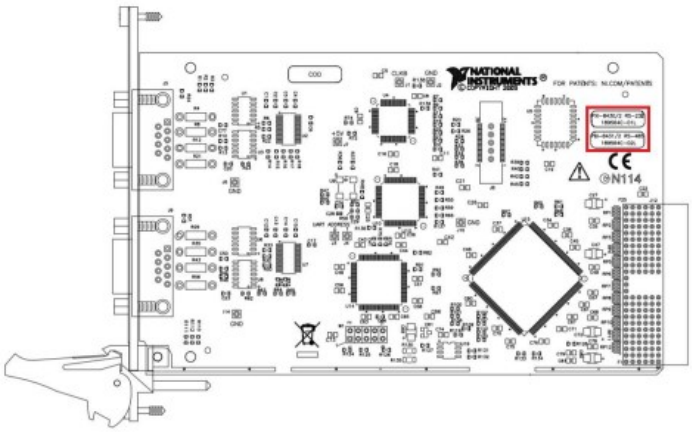
| Target Datn | Type | Size | Battery Backup | User Accessible | Sanitization Procedure |
|---|---|---|---|---|---|
| Glue logic | CPLD | Intel EPM7064S | No | No | None |
| Device configuration | EEPROM | 64 Kbit | No | No | None |

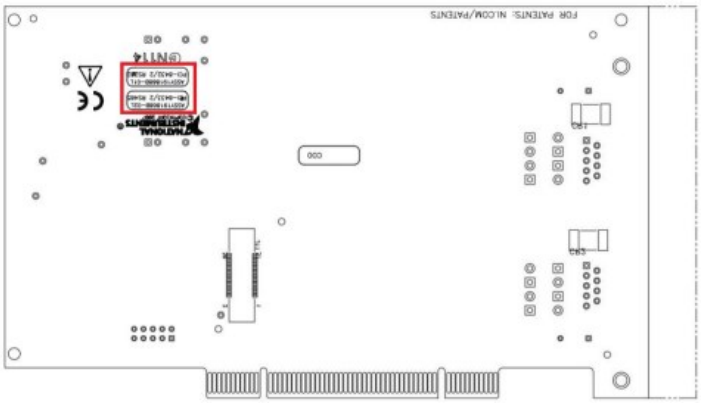
Contents

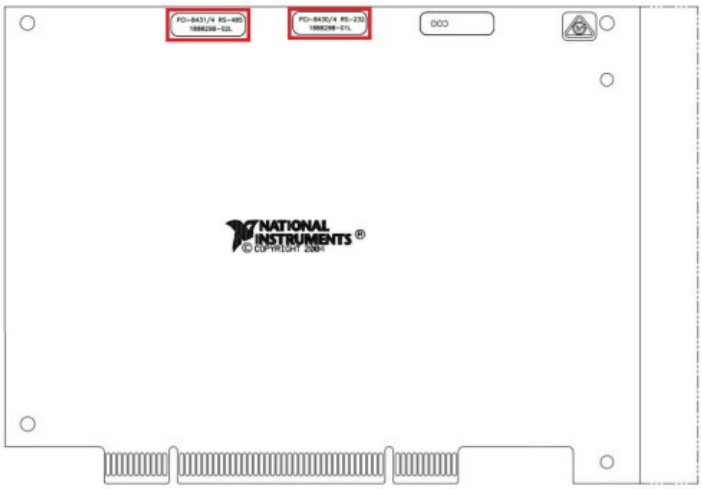

1 Procedures
2 Terms and Definitions
3 COMPREHENSIVE SERVICES
4 SELL YOUR SURPLUS
5 OBSOLETE NI HARDWARE IN STOCK & READY TO SHIP
6 Documents / Resources
6.1 References
7 Related Posts

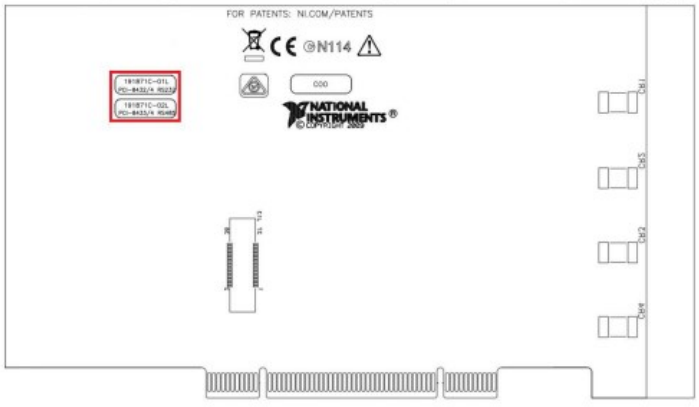

## Procedures

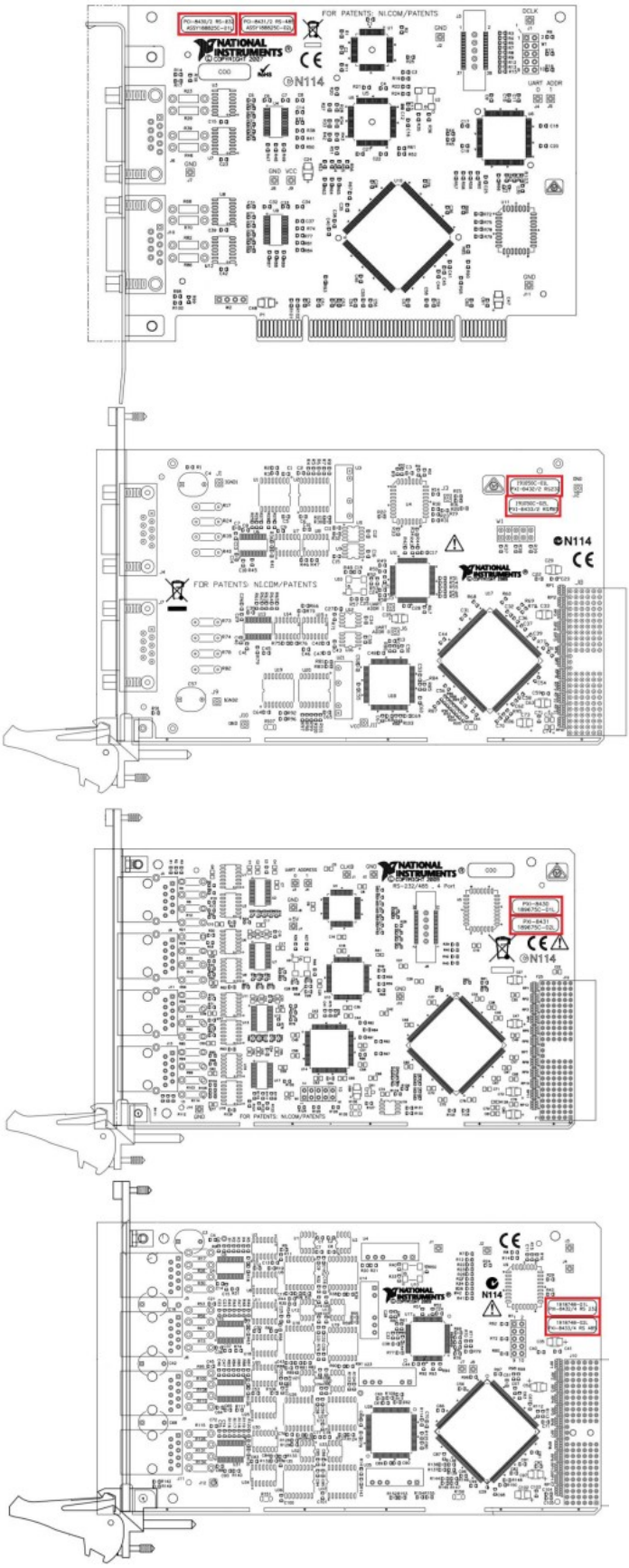
**Procedure 1–Board Assembly Part Number identification:**
To determine the Board Assembly Part Number and Revision, refer to the “Assy#” label applied to the surface of your product as marked by red on the drawing below. The Assembly Part Number should be formatted as “P/N: #####a-xyL” where “a” is the letter revision of the Board Assembly (eg. A, B, C…X) and the “xy” is the type definition (eg.: 01 = 8430 2-port, 02 = 8431 2-port)








FOR PATENTS: NI.COM/PATENTS



## 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.

**Notice:** This document is subject to change without notice. A-01 Rev 001 For the most recent version, **visit** ni.com/manuals.
**Contact:** 866-275-6964 377074
support@ni.com


## 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.

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

e 1-800-915-6216
www.apexwaves.com
sales@apexwaves.com

## Documents / Resources

| | |
|---|---|
| | NATIONAL INSTRUMENTS PXI-8432-2 High-Performance Isolated 2-Port Serial Interface [pdf] Instruction Manual<br>PXI-8431-2, PCI-8430-2, PCI-8431-2, PCI-8432-2, PCI-8433-2, PCI-8430-4, PCI-8431-4, PCI-8432-4, PCI-8433-4, PXI-8430-2, PXI-8431-2, PXI-8432-2, PXI-8433-2, PXI-8430-4, PXI-8431-4, PXI-8432-4, PXI-8433-4, PXI-8432-2 High-Performance Isolated 2-Port Serial Interface, High-Performance Isolated 2-Port Serial Interface, Isolated 2-Port Serial Interface, 2-Port Serial Interface |

## References

- Product Documentation - NI
- PXI-8431/2 National Instruments Serial Interface Module | Apex Waves

Manuals+,