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.

0

1-800-915-6216



www.apexwaves.com

sales@apexwaves.com

All trademarks, brands, and brand names are the property of their respective owners.

Request a Quote



NI-9219

Contact: 866-275-6964

support@ni.com



Manufacturer: National Instruments

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

Part Number and Revision	Description
198848B-01L or later	4 CH UNIVERSAL ANALOG INPUT
198848B-04L or later	4 CH CONFORMAL COATED UNIVERSAL ANALOG INPUT

Volatile Memory

Target Data	Туре	Size	Battery Backup	User ¹ Accessible	System Accessible	Sanitization Procedure
Last digitized value	ADC	24 bits (x4)	No	Yes	Yes	Cycle Power
Module operation	MCU RAM	1280 B (x4)	No	No	Yes	Cycle Power

Non-Volatile Memory (incl. Media Storage)

Target Data	Туре	Size	Battery Backup	User Accessible	System Accessible	Sanitization Procedure
Module ID and Calibration data ²	EEPROM	2 KB	No	No	Yes	Procedure 2
Module operation	CPLD	640 LUTs	No	No	No	None
Module operation	MCU FLASH	8 KB (x4)	No	No	No	None

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

² Calibration constants that are stored in device EEPROMs include information for the device's full operating range. Calibration constants do not maintain any unique data for specific configurations at which the device is used unless otherwise specified.

Contact: 866-275-6964

support@ni.com



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" (where '#' are numbers).

Procedure 2 - Calibration data:

The user-accessible areas of the Device Configuration EEPROM are exposed through a calibration Applications Programming Interface (API) in LabVIEW. Follow the instructions in KB <u>4GHLANQE</u> (Clearing the User-Accessible EEPROM on an NI-DAQmx Supported Device) for changing the calibration password and clearing the user-defined information.

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.