

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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

Visit our website - *Click HERE*

PCI-8432/8433 2- and 4-Channel Hardware Specifications

This document lists the specifications for the PCI-8432 and PCI-8433 2 and 4-channel boards.

Environment

Maximum altitude ..... 2,000 m (at 25 °C ambient temperature)

Pollution Degree 2

Indoor use only

Operating environment

- Ambient temperature range ..... 0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
- Relative humidity range..... 10% to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)

Storage environment

- Ambient temperature range ..... –20 to 70 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
- Relative humidity range..... 5% to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)

NATIONAL INSTRUMENTS

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Other Specifications

Dimensions .....10.7 × 17.4 cm (4.2 × 6.9 in.)

IO connector—2 port.....DB-9 (male) x2

IO connector—4 port.....10-position modular (RJ-45) x4
(RJ-45 to male DB-9 adapter included)

Power requirement (from PCI bus)

PCI-8432/2

+5 VDC .....380 mA typical
570 mA maximum

PCI-8433/2

+5 VDC .....380 mA typical
570 mA maximum

PCI-8432/4

+5 VDC .....550 mA typical
815 mA maximum

PCI-8433/4

+5 VDC .....785 mA typical
1.2 A maximum

Isolation voltage[1]

From port to port 2,000 Vrms/60s

From any port to host computer 2,000 Vrms/60s

Maximum serial transfer rate[2]

RS-485.....2,000,000 bps

RS-232.....1,000,000 bps

Maximum cable length

RS-485[3] .....30 m (limited by EMC/surge)

RS-232.....2,500 pF equivalent
(TIA-EIA-232-F 2.1.4)

Data line ESD protection (human body model)

RS-485.....± 15 kV

RS-232.....± 15 kV

[1] Verified by a dielectric withstand test.

[2] Actual speed may vary considerably from speed shown due to system and instrumentation capabilities.

[3] RS-485 is capable of 1.2 km (4,000 ft) without surge limitation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Safety

This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1
- CAN/CSA-C22.2 No. 61010-1

Note For UL and other safety certifications, refer to the product label or visit `ni.com/certification`, search by model number or product line, and click the appropriate link in the Certification column.

Electromagnetic Compatibility

Emissions ..... EN 55011 Class A at 10 m
FCC Part 15A above 1 GHz

Immunity ..... EN 61326:1997 + A2:2001, Table 1

CE, C-Tick, and FCC Part 15 (Class A) Compliant

Note For EMC compliance, operate this device with shielded cabling.

CE Compliance

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

Low-Voltage Directive (safety) 73/23/EEC

Electromagnetic Compatibility
Directive (EMC) 89/336/EEC

Note Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit `ni.com/certification`, search by model number or product line, and click the appropriate link in the Certification column.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

National Instruments, NI, ni.com, and LabVIEW are trademarks of National Instruments Corporation. Refer to the *Terms of Use* section on `ni.com/legal` for more information about National Instruments trademarks. Other product and company names mentioned herein are trademarks or trade names of their respective companies. For patents covering National Instruments products, refer to the appropriate location: **Help»Patents** in your software, the `patents.txt` file on your CD, or `ni.com/patents`.

© 2005 National Instruments Corporation. All rights reserved.

371595A-01 May05

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP