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.

Find the *National Instruments USB-8451* at our website: ***Click HERE***

USB I²C/SPI Interface

NI USB-8451

- I²C master interface with clock rates up to 250 kHz
- SPI master interface with clock rates up to 12 MHz
- 8 general-purpose digital I/O lines
- High-level, easy-to-use LabVIEW API
- Bus-powered, full-speed (12 Mb/s) USB connectivity
- 7 and 10-bit I²C addressing
- 4 SPI modes
- Advanced API for custom I²C and SPI transactions

Operating Systems
- Windows 2000/XP

Recommended Software
- LabVIEW

Driver Software (included)
- NI-845x



Overview

The National Instruments USB-8451 is a USB interface that provides inter-integrated circuit (I²C) and serial peripheral interface (SPI) communication for the test, validation, and programming of consumer electronics devices such as analog-to-digital converters (ADCs) and EEPROMs. In addition, the NI USB-8451 includes 8 general-purpose digital I/O lines that can be used for a variety of applications. Because the module operates on the USB bus, it offers plug-and-play setup and is ideal for use in close proximity to the system components.

Software Description

The USB-8451 includes driver software that provides high-level, easy-to-use National Instruments LabVIEW functions for quick and easy development of applications to communicate with I²C and SPI devices. In addition to the high-level basic API, there is an advanced API that includes scripting functionality for custom I²C and SPI transactions.

Common Applications

The USB-8451 is ideal for a number of consumer electronics applications such as programming, testing, and/or communicating with the following devices:

- ADCs
- Microcontrollers and EEPROMs
- Sensors (temperature, accelerometers, etc.)
- Real-time clocks, crystals, and oscillators
- LCD controllers

Ordering Information

NI USB-8451 779553-01

BUY NOW!

For complete product specifications, pricing, and accessory information, call (800) 813 3693 (U.S.) or go to **ni.com/oem**.

NATIONAL INSTRUMENTS™

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

NI Services and Support



NI has the services and support to meet your needs around the globe and through the application life cycle – from planning and development through deployment and ongoing maintenance. We offer services and service levels to meet customer requirements in research, design, validation, and manufacturing. Visit **ni.com/services**.

Training and Certification

NI training is the fastest, most certain route to productivity with our products. NI training can shorten your learning curve, save development time, and reduce maintenance costs over the application life cycle. We schedule instructor-led courses in cities worldwide, or we can hold a course at your facility. We also offer a professional certification program that identifies individuals who have high levels of skill and knowledge on using NI products. Visit **ni.com/training**.

Professional Services

Our Professional Services Team is comprised of NI applications engineers, NI Consulting Services, and a worldwide National Instruments Alliance Partner program of more than 600 independent consultants and integrators. Services range from start-up assistance to turnkey system integration. Visit **ni.com/alliance**.

NATIONAL INSTRUMENTS™
Certified Alliance Partner

OEM Support

We offer design-in consulting and product integration assistance if you want to use our products for OEM applications. For information about special pricing and services for OEM customers, visit **ni.com/oem**.

Local Sales and Technical Support

In offices worldwide, our staff is local to the country, giving you access to engineers who speak your language. NI delivers industry-leading technical support through online knowledge bases, our applications engineers, and access to 14,000 measurement and automation professionals within NI Developer Exchange forums. Find immediate answers to your questions at **ni.com/support**.

We also offer service programs that provide automatic upgrades to your application development environment and higher levels of technical support. Visit **ni.com/ssp**.

Hardware Services

NI Factory Installation Services

NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with **ni.com/pxiadvisor**.

Calibration Services

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit **ni.com/calibration**.

Repair and Extended Warranty

NI provides complete repair services for our products. Express repair and advance replacement services are also available. We offer extended warranties to help you meet project life-cycle requirements. Visit **ni.com/services**.

NATIONAL INSTRUMENTS™

ni.com • (800) 813 3693
National Instruments • info@ni.com

© 2005 National Instruments Corporation. All rights reserved. LabVIEW, National Instruments, National Instruments Alliance Partner, NI, ni.com, and SCXI are trademarks of National Instruments. Other product and company names listed are trademarks or trade names of their respective companies.
A National Instruments Alliance Partner is a business entity independent from NI and has no agency, partnership, or joint-venture relationship with NI.

2005-5948-151-101

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