

WINI2CPCI

I2C Comms for Windows



WinI2C PCI is Calibre's Windows™ I²C application for your PCI90 or PCI93LV Communications Adapter. This application is designed to 'quick-start' new comers to I²C whilst providing the more experienced user with a set of very useful tools. Versions for 95/98/NT4/2000 and XP are included.

Features

- 100% I²C compatibility**
- Easy I²C adapter configuration**
- On screen display of all configuration parameters**
- 8 I²C functions including master & slave protocols and real-time bus monitor**
- 3 selected data formats (Hexadecimal, Decimal and Binary)**
- Text based data files with transfer parameters and optional user comments**
- Full on line help and a comprehensive user manual**

The following I²C functions are supported:

1. Master (the adapter located in the PC) reading from a Slave (located elsewhere)
2. Master (the adapter located in the PC) writing to Slave (located elsewhere)
3. Memory read - the adapter located in the PC is a master and reads the entire contents of the I²C memory.
4. Memory write - the adapter located in the PC is a master and writes data to the complete I²C memory.
5. Slave (the adapter located in the PC) being read by a Master (located elsewhere)
6. Slave (the adapter located in the PC) being written to by a Master (located elsewhere)
7. Teletype - the adapter located in the PC is a master and writes each byte of data to the slave as it is typed in.
8. Real-time bus monitor – captures I2C transfers and stores on disc for diagnosis and debugging of experimental systems

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The application provides a windows driven configuration of the PCI90 or PCI93LV including the setting up of the master SCL clock speed (1.5 / 11 / 45 / 90 KHz) and the own address of the adapter within your system.

The Master Read / Write, Slave Sender / Receiver and Teletype functions support transfers which require the first word after the address to be an offset pointer as well as those that do not.

The memory read / write functions access the entire device with a minimum of I²C parameters. If the device is larger than 256 bytes the application will automatically access the next page.

The teletype function allows you to send one byte of data to a slave, then inspect the effect of that data on your system before sending the next byte.

A progress window is displayed whenever an I²C transfer is executed, except for Teletype and Monitor functions. The part of the I²C transfer cycle currently being performed is indicated by bold text. The Operation column within the progress provides a simple description of the part of the I²C transfer cycle currently being performed, including the state of the acknowledge for the transfer. The Data column details the I²C address transmitted / received (NOTE slave functions also display the Offset address received). The I²C Status column details the status of the bus at the various parts of the I²C transfer cycle.

The Real-Time bus monitor function transparently captures I2C data transfers and saves these to disc for viewing and diagnosis.

Data can be displayed in hexadecimal, decimal and binary formats which can be loaded from and saved to simple text files. These files include the transfer parameters to enable portability of data between different PCs.

All data files can be edited manually via standard windows text editors. Data can be edited directly by simply clicking on the byte to be changed and then entering the new data.

The data can have comments added to improve readability. These comments can either be entered directly or via a text editor at a later date. The contents of the data table can be printed via the Windows default printer.

The use of proven I²C software can significantly reduce your I²C hardware and software development time by breaking the design loop.

This software can also be used in a production test environment enabling you to stimulate or monitor your system, hence reducing the need for expensive special to type test equipment.

Calibre also offers a large range of lcd monitors and interfaces, colour monitors, computer video distribution amplifiers, scan converters and many other display related products. Please call for further information.

WINI2CPCI is for use with Calibre's PCI90 and PCI93LV internal PCI-bus I2C Adapters only. Alternative software is also available for use with Calibre's ICA90 and ICA93LV ISA-bus I2C Adapters and PICA90 and PICA93LV external I2C Adapters.

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Purchase of WINI2CPCI conveys a single user licence for installation on one computer or use with one I2C Adapter only. One software licence is required for each concurrent installation.

Specification	Fully I ² C compatible Developed directly for the PCI90 & PCI93LV Easy to use Windows™ application with full on line help
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For further information on the WINI2CPCI application or any other Calibre product contact

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