

3-Volt Compatible I²C Communications PCI Adapter PCs



PC193LVIC

The PCI93LV is able to work with I^2 C-Bus systems running on supplies between 2 and 6V so is ideally suited for use in low-power 3V applications. The PCI93LV is a PCI-based version of Calibre's well-proven ICA90 I^2 C-Bus Communications Adapter which is now widely regarded as the industry standard tool and is currently in use by hundreds of companies large and small.

The package supplied includes the PCI card, a comprehensive user manual, Windows 95/98/2000/NT4 and XP device drivers to enable users to integrate the product with their own software applications and a real-time I²C-Bus monitor program.

Ready-to-run WINI2C software for immediate control and development of I²C-Bus systems is also available as an optional extra.

Features: True f²C Compatibility

f C-Bus voltage between 2 and 6V (user alterable)
True 30/70% logic thresholds track with supply voltage
Operates as Master, Slave or Real-Time Monitor

Fits any PC with free PCI slot

Win95/98/2000/NT4 & XP device drivers and monitor software included

L'C Configuration through software L'C Connection via 9 way D socket

+2 to 6V power available on f²C connector

The PCI93LV is based around the Philips PCF854 I^2C Bus controller to support the full I^2C communications protocol and plugs into any available PCI slot in your PC. Bus termination and protection are all link selectable while I^2C configuration and all other protocol functions are software controllable. The I^2C -Bus voltage is selectable by a trim-pot accessible through the card mounting bracket.

All I²C features are available under software control including data transmission mode (master/slave, transmitter/receiver), own slave address and SCL clock speed when operating as a master (1.5/11/45/90kHz). A "transparent" real-time bus monitor program is also provided. The PCI93LV fully supports multi-master operation and associated bus arbitration.



Make Your PC I²C Compatible

The PCI93LV adapter adds inexpensive PC computing power to any I²C system and presents an attractive alternative option to the use of a microprocessor or microcontroller. Current applications include development systems, production line test and set-up of I²C based equipment, control of systems and specialised data links between equipment.

Win95/98/2000/NT4 & XP device drivers and a real-time bus monitor program are included with the PCI93LV/C package. Win95/98/2000/NT4 & XP ready to run software applications are available as optional extras. Note: the PCI93LV/C cannot be used under DOS or Win3.1

Standard software is in the form of function libraries for use in users' own application software.

The principle of the software is to provide all the I^2C functions - I^2C adapter set-up (including card's own I^2C slave address and SCL clock speed), Start & slave address transmission, byte transmission, byte reception, Stop transmission and of course access to status information. The user then builds these high-level functions into the necessary program for driving their particular I^2C devices. This option was chosen as opposed to providing drivers for specific I^2C devices since

there are so many different types and sources available it would be impossible to provide specific code to suit all applications. The software routines provided allow any $\rm I^2C$ device, current or future, to be communicated with. It should be noted that all $\rm I^2C\textsc{-}Bus$ operations are on a bytewise basis.

On the disc provided with the PCI93LV/C there is a ready to run real-time bus monitor program which traces all transmissions on an externally mastered $\rm I^2C$ bus and records them in an ASCII file on disc. The monitor traces in real-time without affecting the $\rm I^2C$ system it is monitoring - to do so the card must be used in a PC which is not running other tasks at that time (such as FindFast, Outlook) otherwise data may be missed. The monitor does not provide a real-time display to the screen, all data is stored on disc. It does carefully post-process the data recorded into easily understood information.

Calibre UK Ltd undertakes I²C-Bus software development and support contracts to customers' own requirements. Calibre also offers a large range of LCD displays and interfaces, colour monitors, computer video distribution amplifiers, scan converters and other display related products. Please call for further information.

Specification PCI - PC compatible card (fits any PCI slot)

Full I²C Compatibility

I²C-Bus voltage adjustable between 2 and 6 volts Factory pre-set 3.3V for use with low-voltage devices

I²C configuration through software

Can be Master/Slave, Transmitter/Receiver, Real-Time Monitor

Software device drivers included for Win95/98/2000/NT4 & Windows XP

Ready to run Real-Time Monitor included Includes comprehensive User Manual

I²C connections via 9 Way D socket

I²C-Bus voltage output to power external circuits via 9 Way D

Options WINI2CPCI ready to run application software, 95/98/2000/NT4 & Windows XP

versions available

For further information on the PCI93LV/C or any other Calibre product contact:

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