378-4307

PICA90

Desktop I2C Communications Adapter for PCs

Ideal for use with a laptop where portability is a prime requirement

Click here to view PICA90 picture

Calibre's classic I2C Communications Adapter is now available in a desktop format to plug onto the printer port of your PC.

I2C Communications Adapters from Calibre are in use by many major electronics companies throughout UK, Europe, USA and the Far East.

The package supplied includes the desktop unit, user manual, sample software routines and source code functions in C and QuickBASICfor all I2C-bus operations as well as set-up and status checking routines. 16-bit Windows DLLs for programmers using Microsoft C++ or Visual Basic are included as standard.

Features

- ***100% I2C Compatibility***
- ***Operates as Master or Slave***
- ***Connects to any PC parallel printer port***
- ***Software Function Libraries & User Manual included***
- ***I2C Configuration through software***
- ***I2C Connection via 9 Way D socket***
- ***Powered via keyboard or mouse connector, +5V power available on I2C connector***

PICA90 supports the full I2C communications protocol and connects to any PC parallel printer port. Power is obtained from any keyboard or PS/2 style mouse connector. All cables for connection to the PC are provided as standard. Based around the Philips PCF 8584 I2C Bus Controller it will work with any IBM compatible computer. Bus termination and protection are link selectable while I2C configuration and all other functions are software controllable.

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). The PICA90 fully supports multi-master operation and associated bus arbitration.

Make Your PC I2C Compatible

The PICA90 adds inexpensive PC computing power to any I2C system and presents an attractive alternative option to the use of a microprocessor or microcontroller. Typical applications include development systems, production line test and set-up of I2C based equipment, control of systems and specialised data links between equipment.

A comprehensive package is supplied including simple software routines in C and QuickBASIC for DOS programmers and as 16-bit DLLs for Microsoft C++ and Visual Basic for Windows programmers, a full user manual for the PICA90 and the PICA90 hardware itself. The user manual gives comprehensive software information but does assume that the user is already familiar with

the protocol of the I2C bus and programming and on PCs.

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

The principle of the software is to provide all the I2C functions - PICA90 set-up (including own I2C 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 I2C devices. This option was chosen as opposed to providing drivers for specific I2C devices since there are so many different types and sources available it would impossible to provide specific code to suit all applications. The software routines provided allow any I2C device, current or future, to be communicated with. It should be noted that all the PICA90 operations are on a byte-wise basis. The software routines supplied are only for using the adapter in polled mode but will work in interrupt driven mode with minor modifications. Using the PICA90 as a Slave transmitter is quite specialised and requires a few extra lines of code under DOS. The Windows DLLs are recommended if Slave mode is to be implemented. Calibre technical staff will be pleased to help if you wish to undertake such a use.

On the disc provided with the PICA90 there are sample programs giving examples of how to use the library functions.

Specification Desktop cased unit connects via parallel printer port and keyboard or PS/2 mouse ports

Full I2C Compatibility
I2C configuration through software
Can be Master or Slave, Transmitter or Receiver

Software library functions for DOS and Windows 3.1x
Includes User Manual

I2C connections via 9 Way D socket
+5V output to power external circuits via 9 Way D

Options 32-bit Windows DLLs, 95 & NT versions available
WINI2C ready to run application software, 95/98 & NT4 versions available

Calibre designs and manufactures its I2C-Bus Communications Adapters at its base in the UK .

Calibre manufactures and distributes a wide range of high performance colour CRT and flat panel displays, computer video distribution amplifiers and video signal scan converters and radar graphics processing equipment. If you have any requirement for display equipment Calibre's product application specialists are ready to help you reach an effective solution.

For further information on the I2C-Bus Communications Adapters or any other Calibre product contact:

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