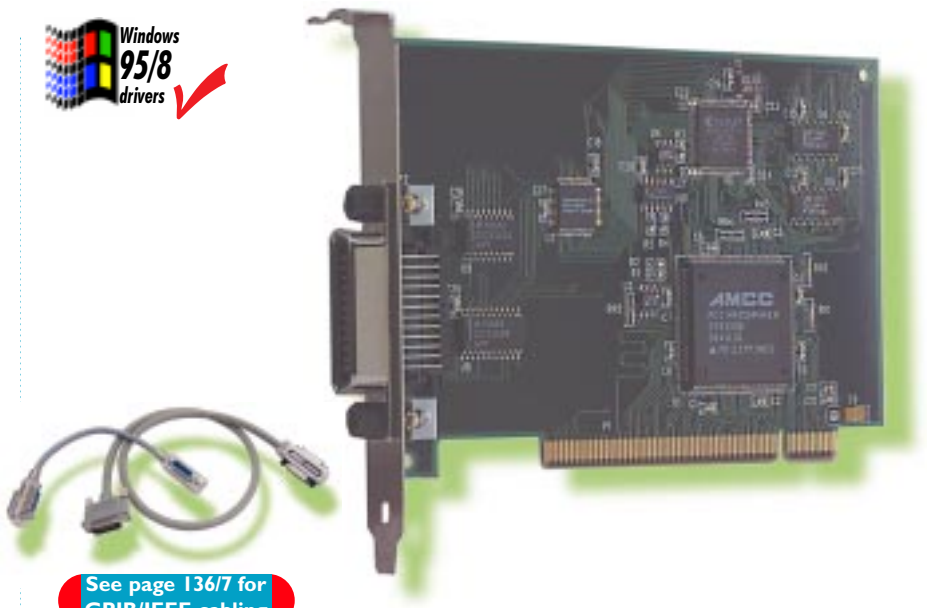
ISA/PCI Economical IEEE 488.2 Controller Board

Registered ISO 9001 Company

488 PCI/PC2

- **Converts any ISA or PCI bus PC into a full function IEEE 488.2 controller**
- **Installation is quick and easy with installation software to help you**
- **Documented 488.2 BASIC, Quick BASIC, Turbo Pascal, C and C++ libraries included with every board**
- **Microsoft Windows DLL also included for developing 488.2 Windows applications**

Windows 95/8 drivers



See page 136/7 for GPIB/IEEE cabling

488 PC2 or 488 PCI converts any ISA or PCI bus PC in to a IEEE 488.2 bus controller and also lets you use it as an IEEE 488 bus device. The board performs all of the basic IEEE 488.1 functions such as Talker, Listener and System Controller or Controller-in-charge. Additional logic and controller routines have been added to the board to make it fully compatible with the IEEE 488.2 specification.

Hardware features

The half length board uses an indusrty standard controller chip with additional programmable logic to incorporate the new functions. DMA transfers of over 300K bytes per second are supported and a single multi rocker switch assembly allows selection of I/O address, DMA channel, interrupt level and waitstates. An installation program leads you through the selection process and graphically confirms the boards switch settings.

488.2 and SCPI capabilities

The 488 PC2/PCI lets you take full advantage of the new IEEE 488.2 and Standard Commands for Programmable Instruments (SCPI) standards. The board enables any PC to become an IEEE 488.2 controller and a Microsoft Windows DLL, supplied with the board, includes all of the required IEEE 488.2 protocols to simplify your programming task.

Software support

ICS's 488 Drivers let you control GPIB devices and pass data over the GPIB bus from any PC. The 488 Drivers support Interpretive BASIC, Compiled Basics, Turbo Pascal, C and C++ language programs.

Keyboard controller program

A Dynamic Link Library for operating the board from Microsoft Windows is also included, along with a live keyboard program.

The program allows the user to interactively control GPIB devices directly from the computer's keyboard, and is the recommended way to test the 488-PCI and 488-PC2 boards after their installation. The Keyboard Controller Program is also useful for testing GPIB (HP-IB or IEEE-488) devices without writing a program or for trying out device commands on a new instrument before incorporating them into a program.

The Keyboard Controller program is installed in the same directory with the 488-PCI/PC2 Drivers. To run double click on its Icon or go to START and Run c:\ICS_GPIB\GPIBkybd.exe.

The program opens with the panel shown below.

The Keyboard Controller launches it automatically runs the 488.2 FindLstn to learn what devices are connected to the GPIB bus and displays the found device addresses in the Device Response message box.

DESCRIPTION	PRODUCT CODE
488 PC2 GPIB controller board for ISA bus with 32 bit drivers and keyboard controller program	909 346 50
488 PCI GPIB controller board for PCI bus with 32 bit drivers and keyboard controller program	909 894 53

Don't forget your GPIB cables

SPECIFICATION

Commands	Supports all IEEE 488 commands including Pass Control and Take Control and IEEE 488.2 Controller Protocols.
Conformity	Meets IEEE-STD-488.2 with the following additional capabilities : AH1, SH1, T5, L3, C1, C2, C3, C4, C5, and E2 drivers. Drivers incorporate power up/down protection
IEEE 488.2	Includes ability to monitor all of the bus signal lines including SRQ
GPIB handshake rate	> 300Kbyte/s with DMA - PC2 1Mbyte/s - PCI
Timeout	1ms to 65s and none
DMA	Supports channels 1, 2 or 3
Interrupts	Supports AT shared interrupt levels 2 to 7
Wait states	On-card switch-controlled wait state generator adapts card to high speed CPUs with bus clock rates upto 20MHz.
Power	5Vdc, 600mA (typical)
Instruction manual	BASIC drivers, Quick BASIC, Pascal, C and C++ libraries and 488-PC2 Windows DLLs for Win3.11 and Win/95/98
Compliance	CE EMC