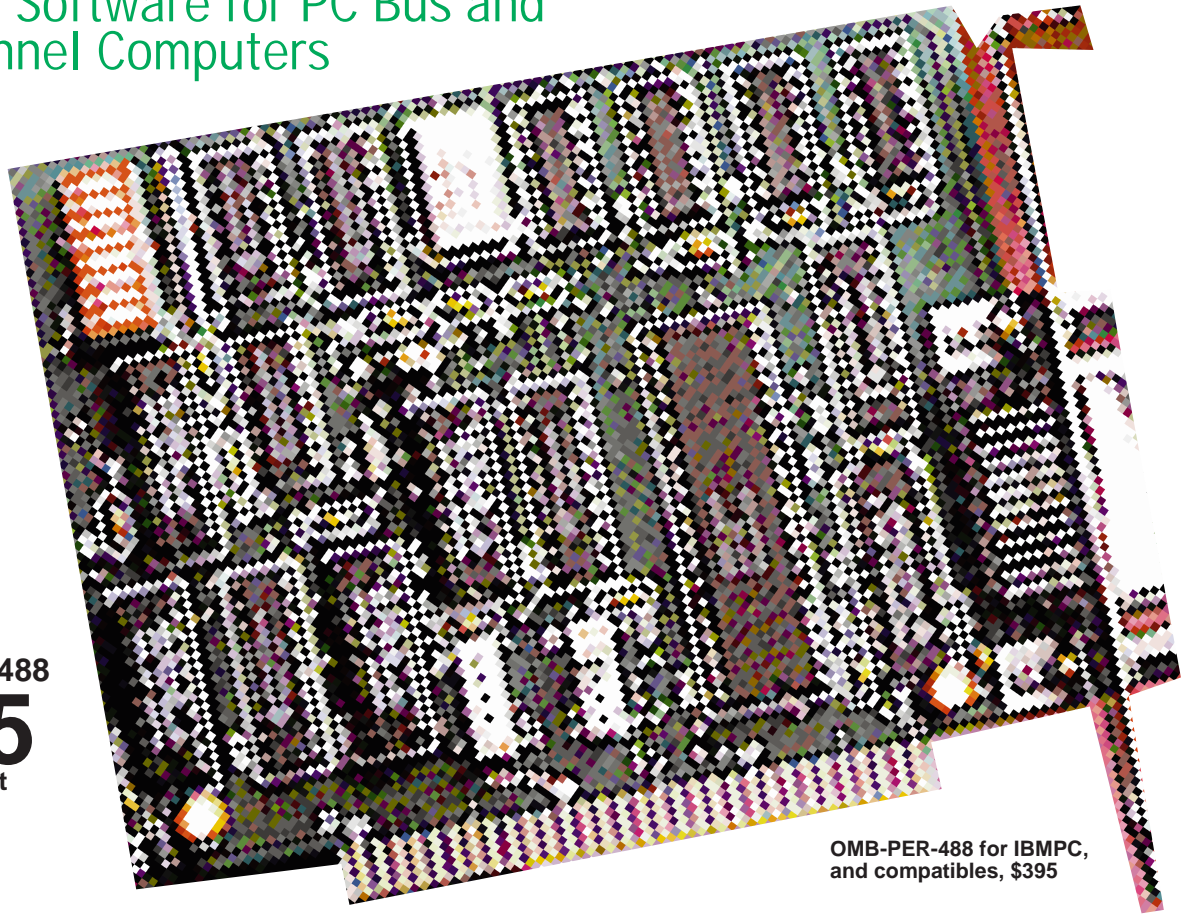# IEEE-488 Interface Board
Board and Software for PC Bus and Microchannel Computers

OMB-PER-488
$395
Basic Unit

OMB-PER-488 for IBMPC, and compatibles, $395

- ✔ **PC and AT Compatible, with 8-Bit Slot or 16-Bit Microchannel Interface**
- ✔ **330 kbyte/sec Data Transfer Rate**
- ✔ **Full IEEE-488.2 Support**
- ✔ **Includes DOS and Windows Drivers**
- ✔ **Easily Programmable via Familiar HP-Style Commands**
- ✔ **Compatible with Popular Graphics and Analysis Software**

The OMB-PER-488 board for IBM PC and compatibles converts a PC or a PC/AT into an IEEE.2-compliant controller. The OMB-PER-488 includes a half-size interface board with DOS and Windows driver software. For microchannel-based computers, the OMB-PER-488/2 features a 16-bit microchannel interface. The three software drivers included with each board are fully and independently documented, ensuring easy start-up and usability.

SOFTWARE DRIVERS

The OMB-PER-488 includes three driver packages; the base driver compatible with all major programming languages and spreadsheets; a high performance driver with subroutine-style interface that supports C, Pascal and QuickBasic; and a Windows dynamic link library (DLL) with C and VisualBasic support.

DOS DEVICE DRIVER SOFTWARE

The DOS driver software for the OMB-PER-488 features powerful HP-style commands to simplify IEEE-488 instrument control and application program development, by transparently executing multiple low-level bus management tasks and shielding the operator from the complexities of IEEE-488 protocol. They can be used in application programs written in any popular software language. PC serial (COM) port support is standard, enabling direct serial communication from programming languages. Asynchronous communications is also supported, allowing a program to execute foreground tasks while the driver concurrently controls multiple background I/O tasks. Data is transferred simultaneously, via DMA or interrupts, on multiple IEEE-488 and/or serial ports. Automatic program vectoring to service routines for Basic, C and

IEEE-488 **IBM PC** **IBM PS/2**

2 YEAR WARRANTY

MADE IN USA

OMB-PER-488-2 for microchannel-based PCs, $495

Pascal programs is also supported. Other features include interactive instrument control from the DOS prompt, and serial and parallel port redirection (for applications that direct printer/plotter output through the BIOS).

WINDOWS DYNAMIC LINK LIBRARY (DLL)

The Windows DLL supplied with the OMB-PER-488 board allows users to integrate IEEE 488.2 control into Microsoft Windows applications. It provides HP-style IEEE-488 commands for high and low-level IEEE-488.1 bus control, and offers additional commands that support

the IEEE-488.2 standard. The software also conforms to Windows' standard application architecture, allowing Windows to link with the IEEE-488 driver during run time, and to manage memory requirements, interrupts and messages. Windows multitasking capability allows multiple test applications to concurrently access the same network of IEEE-488 instruments. This software automatically arbitrates

Specifications
OMB-PER-488

IEEE Controller Device: NEC µPD 7210

Max Transfer Rate: 330 kbytes/sec

Dimensions: occupies one PC-compatible (ISA) short or long slot

Connector: accepts standard IEEE-488 connector with metric studs

Power: +5V @ 650 mA max from PC

Environment: 0 to 70°C, 0 to 95% RH

DMA: channels 0, 1, 2 and 3, jumper-selectable

Interrupts: IRQ 2, 3, 4, 5, 6 or 7

IEEE Base I/O Addresses: &h02E1, &h22E1, &h42E1 or &h62E1

Multiple Board Support: up to four boards may be installed, sharing a single DMA channel and interrupt line

Specifications
OMB-PER-488/2

IEEE Controller Device: NEC µPD 7210

Max Transfer Rate: 330 kbytes/sec

Connector: accepts standard IEEE-488 connector with metric studs

Power: +5V @ 1 A max from PC

Environment: 0 to 70°C, 0 to 95% RH

DMA: channels 0 through 14, software-selectable

Interrupts: IRQ 4, 5, 6, 7, 10, 11 and 15, software-selectable

IEEE Base I/O Addresses: &hxxB0

Multiple Board Support: up to four boards may be installed, sharing a single DMA channel and interrupt line

To Order (Specify Model Number)

Model No.	Price	Description
OMB-PER-488	$395	IEEE-488.2 PC interface with DOS and Windows 3.1 drivers
OMB-PER-488/2	495	IEEE-488.2 microchannel interface with DOS and Windows 3.1 drivers
OMBX-CA-7-3	100	IEEE cable, 6 ft

For Windows 95 drivers order OMB-PER-488/W95
For Windows NT drivers order OMB-PER-488/WNT