NATIONAL INSTRUMENTS

DISCONTINUATION OF ORIGINAL PC-DIO-24 AND PC-DIO-96

You may have the original implementation of the National Instruments PC-DIO-24 or PC-DIO-96 board. The original board is built with through-hole manufacturing technology; new boards are built using surface-mount technology. *The through-hole boards will be discontinued after December 31, 1999.* National Instruments will accept orders for through-hole boards only until December 31, 1999. If your application requires through-hole boards, you must place your order prior to this date.

To determine whether you have a through-hole board, refer to the assembly number on the front side of the circuit board. If the assembly (ASSY) number is 181170x-01 (for the PC-DIO-96) or 180710x-01 (for the PC-DIO-24), where x represents a revision letter, then you have a through-hole board.

The new surface-mount boards are available in two varieties, jumpered or plug-and-play:

- *The jumpered surface-mount boards are software-compatible with the original through-hole boards.* You do not need to change your NI-DAQ driver or other software to use the new boards.

- The plug-and-play surface-mount boards are functionally similar to the original boards but use software instead of jumpers to set base addresses and interrupt levels. The plug-and-play PC-DIO-96 requires NI-DAQ 5.0 or greater; the plug-and-play PC-DIO-24 requires NI-DAQ 6.0 or greater. If you have an earlier version of NI-DAQ and wish to use the plug-and-play boards, you must upgrade your software. The product kit includes current NI-DAQ software.

The most important differences between the new surface-mount boards and the old through-hole boards (both the PC-DIO-24 and the PC-DIO-96) are as follows:

- The new boards use self-resetting fuses on the 5 V supply pins. The old boards use nonresettable fuses.

- The new boards include 100 kΩ resistors on all data lines and an onboard jumper to select pull-up or pull-down configuration. The old PC-DIO-24 has no such resistors. The old PC-DIO-96 has resistors but supports only the pull-up configuration.

The following additional differences apply to the PC-DIO-24 only:

- The plug-and-play board (only) has two new registers. For maximum backward compatibility, the jumpered surface-mount board omits these registers. The new registers act as interrupt enables, eliminating the need to use one of the port C digital I/O lines as an interrupt enable.

- The board is now triangular in shape.

- The metal bracket now includes a grounding tab. The grounding tab can be used to connect the PC-DIO-24 bracket to a shield or ground line, such as the shield connection on an SH50-50 cable. (Some revisions of the old PC-DIO-24 board do not have a grounding tab.)

If you wish to purchase additional boards, you can order any of the three types. If you wish to purchase the original board, you must do so by December 31, 1999. The following chart shows the part numbers to use for ordering the three different types of boards.

Board Type	New, Software-Compatible, Jumpered Surface-Mount Board	New, Plug-and-Play Surface-Mount Board	Original, Jumpered Through-Hole Board (Available until December 31, 1999)
PC-DIO-24	777367-01 (full kit) or 183873-02 (board only)	777368-01 (full kit) or 183873-01 (board only)	776247-01 (full kit) or 180710-01 (board only)
PC-DIO-96	777418-01 (full kit) or 183549-02 (board only)	777271-01 (full kit) or 183549-01 (board only)	776453-01 (full kit) or 181170-01 (board only)