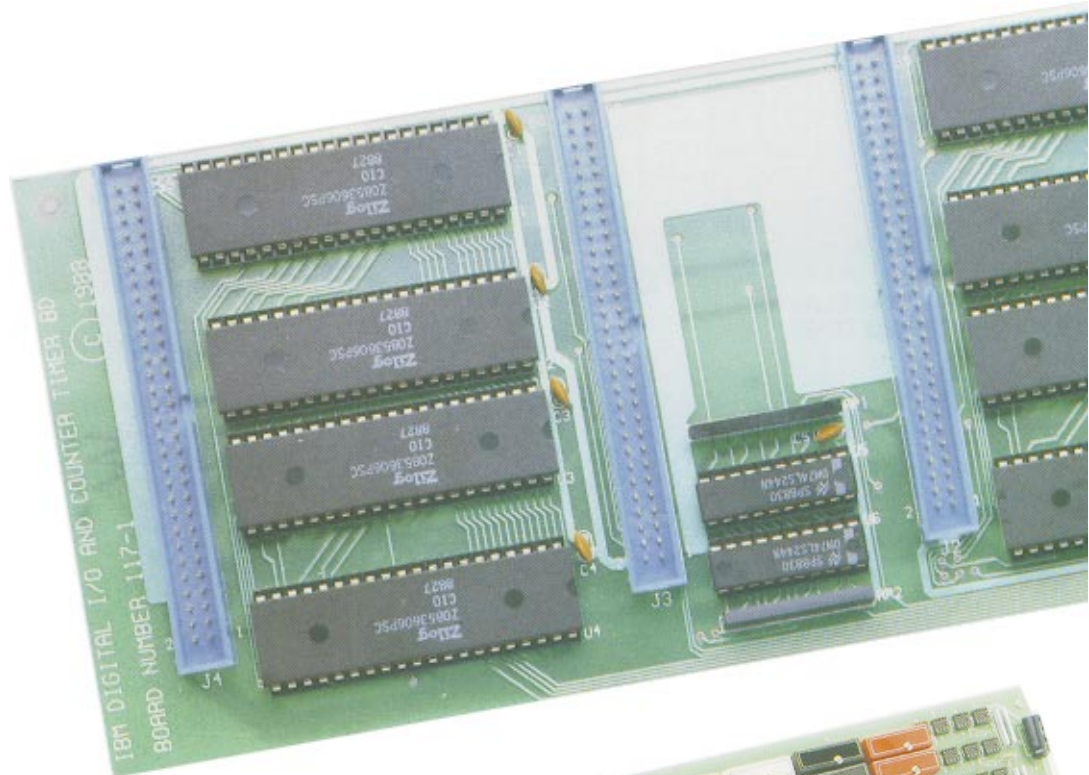# WB-DIO Series High Density Digital I/O Board

For IBM PC and Compatibles and Macintosh II
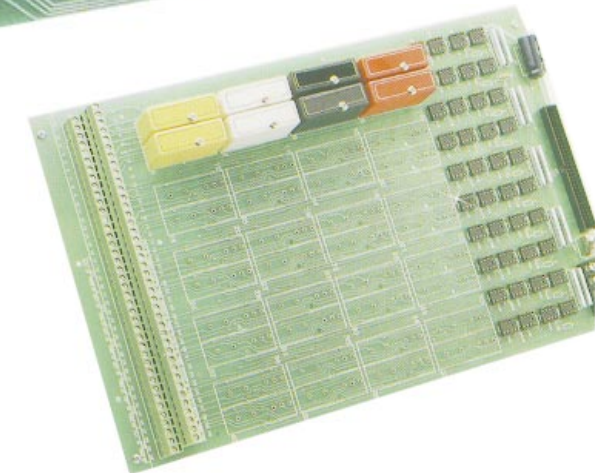
$295 Basic Unit

✔ **Models Available for IBM PC or Compatibles and Macintosh**

✔ **Versions with 160 and 40 Digital I/O**

✔ **Each Digital I/O Channel is Individually Programmable as Input or Output**

✔ **Up to 24 On-Board 16 Bit Counter/Timers**

The OMEGA Series WB-DIO high density digital interface board is designed for applications requiring measurement and control of large numbers of digital I/O lines. The boards are available in 160 and 40 channel versions; each channel is independently configurable through software as inputs or outputs. The 160 channel board also contains 24 counter/timers, and the 40 channel board contains six counter/timers. Each 16 bit counter/timer can operate up to 3 MHZ. These boards are ideal for applications in the laboratory and factory such as detecting contact closures, operation relays, pulse counting, frequency measurement, and timing. The digital I/O is easy to set up through software configuration, with no switches, jumpers, or adjustments. The system is expandable, permitting up to 2400 digital I/O's through the addition of up to 15 boards. Each of the counter/timers can be individually selected for pulse measurement, event counting, or frequency output. The timer/counters are cascadable and can be used as a watch-dog timer to automatically reset the computer or external devices if the software halts or fails.

Omega provides a wide variety of screw terminal panels for use with the WB-DIO plug-in cards. OMEGA solid state switches plug directly into the high power isolation screw terminal panels for easy interface to most real world discrete signals. For low-cost isolation, the WB-DIO-LDA210 modules plug into the low power isolation terminal panels. Only one of these modules is required for every two digital channels. Terminal panels are available in 40 and 80 channel versions with an optional 19" rack mountable enclosure and removable screw terminals for easy field replacement. All terminal panels include the necessary cable to connect the screw terminal panel to the plug-in card.
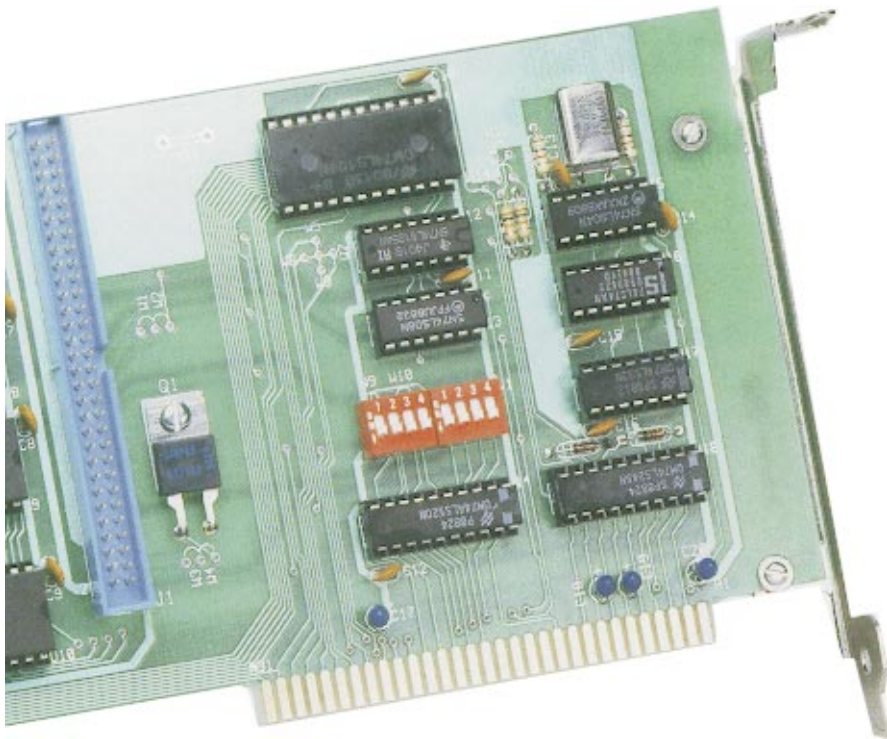
SPECIFICATIONS

Sample rate: Digital I/O, 200,000 inputs or outputs per second maximum; 16 bit counter/timers, 3 MHZ maximum input pulse rate, 150 ns minimum pulse width

ISOLATION MODULES:

WB-DIOX-LDA210: 300V isolation, Open collector output rated at 10ma, 30V maximum. Inputs sense dc voltage and draw 0.2 ma at 5V

Solid State Switches: 4000V isolation

Environmental: 0-70C for card, 0-85C for terminal panel, 5-90% RH non-condensing

Dimensions: WB-DIOX-T400 or WB-DIOX-T410, 8.5" x 13.0" (216 x 330 mm); WB-DIOX-T800 or WB-DIOX-T810, 16.8" x 13.0" (427 x 330 mm)

1 YEAR WARRANTY · **MADE IN USA**

DI/O · **IBM PC** · **Macintosh**

Included with every WB-DIO card are two levels of software. The first is a software driver which is a machine language subroutine that implements all digital I/O and counter functions. These subroutines, which are callable from most high level languages, greatly facilitate custom software development. The second level of software Quicklog for windows data acquisition package which allows operation without any programming.

For Sales or Service
1-800-826-6342

To Order *(Specify Model Number)*		
Model No.	**Price**	**Description**
WB-DIO-PC-160	$595	160 channel digital I/O board for IBM PC's
WB-DIO-PC-40	295	40 channel digital I/O board for IBM PC's
WB-DIO-NB-160	695	160 channel digital I/O board for Macintosh
WB-DIO-NB-40	380	40 channel digital I/O board for Macintosh
WB-DIOX-T400-(*)	355	40 channel low power isolation terminal [1] panel
WB-DIOX-T410-(*)	455	40 channel low or high power isolation terminal [2] panel
WB-DIOX-T800-(*)	495	80 channel low or high power isolation terminal [1] panel
WB-DIOX-T810-(*)	655	80 channel low or high power isolation terminal [2] panel
ACI5-C	15	Solid state switch, senses inputs 90-140 Vac
DCI5-C	15	Solid state switch, senses inputs 10-32 Vdc
ACO5-C	15	Solid state switch, switches 24-280 Vac, 3 A
DCO5-C	15	Solid state switch, switches 10-32 Vdc, 3A
WB-DIOX-LDA210	10	Low power isolation module

* Insert **P** for use with IBM compatible board, or **M** for Macintosh compatible board.
1. Requires WB-DIOX-LDA210 low power module (one for every two digital I/O)
2. Requires WB-DIOX-LDA210 low power module (one for every two digital I/O), or solid state switch modules (one for every digital channel)