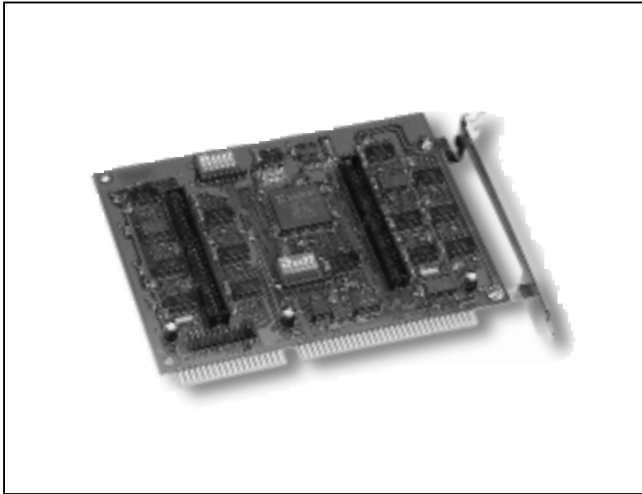




## **DIO-48**

### **48-BIT OPTO-22 DIO Board**



#### **Functional Description**

The DIO-48 Provides 48 TTL digital I/O lines, and one 16 bit counter. The DIO-48 emulates 8255 mode 0 and provides output current of 15mA (source) and 64mA (sink), this allows it to control LED, relay, and others. The DIO-48 consists of six 8 bit bi-directional ports and three input lines for interrupt enable and counter. The three 8 bit port are named port A(PA), port B(PB), port C(PC). The port C can be split into two four bit. All port are configured as inputs as inputs upon power-up or resetting.

The base address is selectable from 200 to 3FF hex. The interrupt signal can be connected to any of the interrupt levels 2 through 7 .

#### **Features**

- Connects directly to DB-24P, DB-24R, DB-24PR, DB-24C, DB-24POR, DB-24SSR, DB-16P8R or any OPTO-22 compatible daughter board
- 48 digital I/O lines
- One 16 bit counter
- IRQ LEVEL: IRQ3.IRQ15
- Interrupt Trigger by: Event/Timer/Port C3, C7
- Clock source can be switching setting: RTC/2M/4M/8M
- Emulate two industrial-standard 8255 mode 0
- Two 50-pin flat cable connector
- Output status read back

#### **Applications**

- Test automation
- Digital I/O control
- Alarm monitoring

- Factory Automation
- Product Test

#### **Specifications**

- Logic inputs and output
  - Input logic high voltage: 2.0V(Min)/5.0V(Max)
  - Input logic low voltage: -0.5V(Min)/0.8V(Max)
- Input load current: -0.45mA(Min)/+70 $\mu$ A
- Output sink current: +64mA(Max)
- Output source current: -15mA
- All outputs and inputs are TTL Compatible
- Power consumption: +5V @ 500mA
- Environment:
  - Operating Temperature: 0 to 50°C
  - Storage Temperature: -20°C to 70°C
  - Humidity: 0 to 90%
  - Dimension: 158mm x 120mm

#### **Software**

- DIO Development Toolkit for DOS
- DIO Development Toolkit for Win95
- DIO Development Toolkit for WinNT

#### **Order Description**

- DIO-48: 48-bit OPTO-22 DIO Board

#### **Options**

- DB-24P: 24-channel opto-isolated input terminal board
- DB-24R: 24-channel relay terminal board
- DB-24PR: 24-channel power relay terminal board
- DB-24C: 24-channel Open-Collector Output board
- DB-24POR: 24-channel Photo Mos Relay Output board
- DB-24SSR: 24-channel Solid State Relay Output board
- DB-16P8R: 16-channel opto-isolated digital input & 8-channel relay output board
- DN-50: I/O connector block with DIN-Rail mounting and 50-PIN Header
- ADP-37: 37-pin Extender
- ADP-50: 50-pin Extender
- DIO LabVIEW Development Toolkit for Win95
- DIO LabVIEW Development Toolkit for WinNT