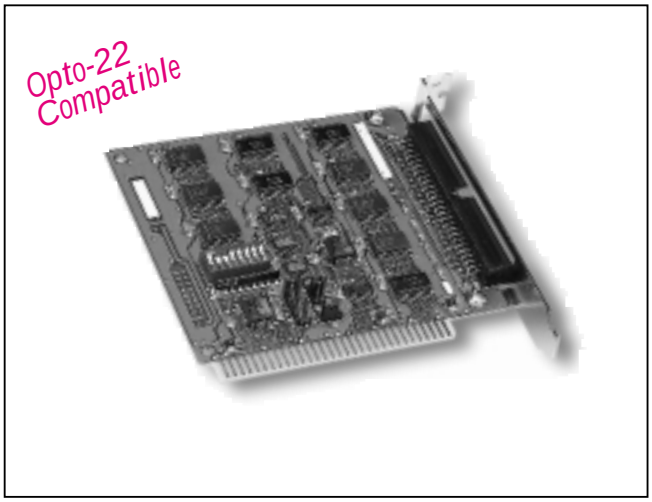
DIO-24

24-BIT OPTO-22 DIO Board



Functional Description

The DIO-24 Provides 24 TTL digital I/O lines. The DIO-24 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-24 consists of three 8 bit bi-directional ports and 3 input lines for interrupt enable. 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
- 24 digital I/O lines
- IRQ LEVEL: IRQ2.IRQ7
- Interrupt Trigger by: Event/Timer/Port C3, C7
- Emulate industrial-standard 8255 mode 0
- One 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)/+70μA
- 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%
  Dimensions: 107mm x 106mm

Software

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

Order Description

- DIO-24: 24-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-16P8R: 16-channel Photo isolated digital input & 8-channel 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
- DIO LabVIEW Development Toolkit for Win95
- DIO LabVIEW Development Toolkit for WinNT