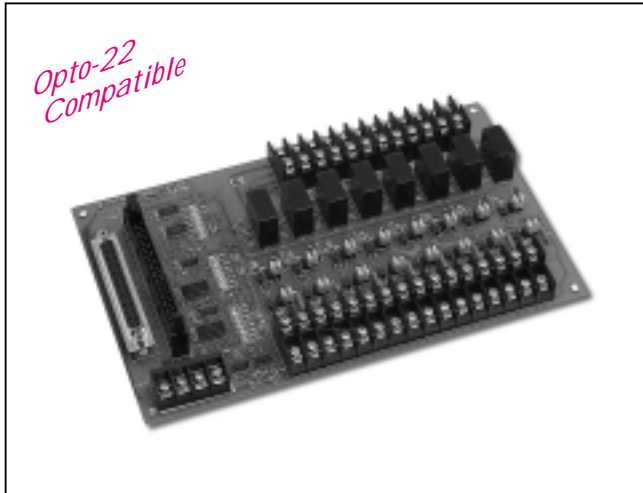




## DB-16P8R

### 16-Channel Opto-isolated Digital Input & 8-Channel Relay Output Board



#### Functional Description

The DB-16P8R consists of 8 form C relay and 16 channel isolated digital input, Each digital input accepts from 3VDC to 24VDC. The contact of each relay can control a 5 A load at 250VAC/30VDC, The relay is energized by applying a 5 voltage signal to the appropriate relay channel on the 50-pin OPTO-22 compatible connector or DB-37 D-sub connector. Both isolated inputs and relay outputs are equipped with LEDs that light up when their associated relay is activated or input signal are at "high" state. To avoid overloading your PC's power supply, this board needs a +24VDC external power supply.

#### Features

- 16 opto-isolated digital inputs
- 8 Form C Relays (SPDT)
- Accept 50-pin connector or D-sub 37 connector to control 8 Form C relays and 16 opto-isolated digital inputs
- Switch up to 5A at 250VAC/5A at 30VDC
- LEDs indicated relay status
- Optional Varistor to protect each channel's high voltage spike
- Screw terminals for easy field wiring
- 50-Pin header Connects directly to DIO-24, DIO-48, DIO--144, PIO-D144, OPTO-22 compatible board or any 722,724 series board
- Jumper selectable for voltage input or dry contact input mode
- 3750V isolation

#### Applications

- On/off control
- Energy management
- Isolated digital input sensing
- Test Automation
- Process Control

#### Specifications

##### ■ Relay

Nominal load: 5A/250VAC, 5A/30VDC

Max. Switching power: 0.1HP

Max. Switching Voltage: 270VAC, 150VDC

Max. Switching Current: 5A

Life Expectancy: Mechanical ( $2 \times 10^7$ )

Electrical ( $3 \times 10^4$ )

Time Value: Operate (10 ms)

Control Logic: Input TTL high A(+5V), relay on

##### ■ Isolated Digital Input

Type: isolated current input

Isolation Voltage: 3750V

Input Voltage: 3.5V to 30V

Input impedance: 3K

Response time: 10KHz Max

##### ■ Dry Contact Input

Logic high: Input Close

Logic Low: Input Open

Power Consumption: 24V@0.3A max.

5V@0.1A max

Dimension: 130mm x 210mm

Operating Temperature: 0~60°C

Storage Temperature: -20~70°C

Humidity: 5% to 90% noncondensing

#### Order Description

- DB-16P8R: 16 Opto-isolated Digital Input & 8-Channel relay output Board with 50-pin flat cable(+24V version)
- DB-16P8R/DIN: DB-16P8R with DIN-Rail mounting kit
- DB-16P8R/D: 16 Opto-isolated Input & 8 relay output Board with 1.5 meter 37-pin D-Sub cable (+24V version)
- DB-16P8R/D/DIN: DB-16P8R/D with DIN-Rail mounting kit