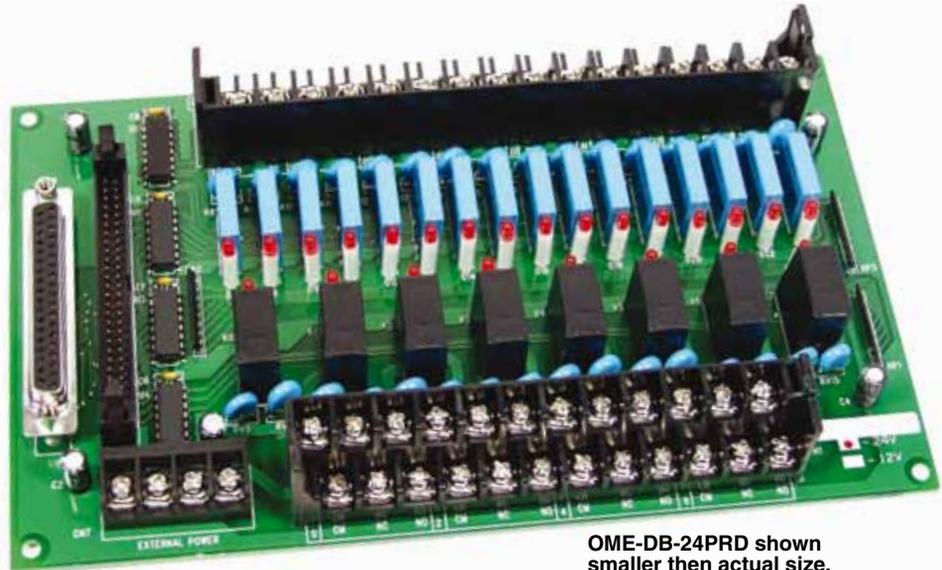


# 24-Channel Power Relay Output Board

OME-DB-24PR/DB-24PRD



- ✓ Accepts 20-Pin Connector (OME-DB-24PR Only) to Control 8 Form C and 8 Form A Relays
- ✓ Switch up to 5A at 250 Vac / 5A at 30 Vdc
- ✓ Includes Varistor to Protect Each Channel Against High Voltage Spike
- ✓ Screw Terminals for Easy Field Wiring
- ✓ 50-Pin Header Connects Directly to OME-PIO-D24, OME-PIO-D48, OME-PIO-D96, OME-PIO-D144 or Other OPTO-22 Compatible Board
- ✓ 20-Pin Header (OME-DB-24PR Only) Connects Directly to OME-A-82XPG Series or OME-PCI-1800 Series
- ✓ 37-Pin D-Sub Connector (OME-DB-24PRD Only) Attaches to OME-PIO-D24, OME-PIO-D48, OME-PIO-D56, OME-PIO-D96 or OME-PIO-D144 Boards



OME-DB-24PRD shown smaller than actual size.

**Maximum Switching Voltage:**  
270 Vac, 150 Vdc  
**Maximum Switching Current:**  
5 A  
**Life Expectancy:** Mechanical (2 x 10<sup>7</sup>), Electrical (3 x 10<sup>6</sup>)  
**Time Value:** (10 ms)  
**Control Logic:**  
Input TTL high (+5V), relay on  
**Power Consumption:**  
24V @ 0.8 A maximum;  
5V @ 0.2 A maximum

**Operating Temperature:**  
0 to 60°C (32 to 140°F)  
**Storage Temperature:**  
-20 to 70°C (-4 to 158°F)  
**Dimensions:**  
210 H x 130 mm W (8.3 x 5.1")  
**Humidity:** 5 to 90% RH non-condensing

The OME-DB-24PR 24-Channel power relay output board consists of 8 form C and 16 form A electromechanical relays for efficient switching of loads by programmed control. The contact of each relay can control a 5 A load at 250 Vac/30 Vdc. The relay is energized by applying a 5 voltage signal to the appropriate relay channel on the 50-pin OPTO-22 compatible connector, 37-pin D-sub connector (OME-DB-24PRD only) or 20-pin flat cable connector (OME-DB-24PR only). Twenty-four enunciator LED's, one for each relay, light when their associated relay is activated. To avoid overloading your PC's power supply, this board needs a 12 Vdc or 24 Vdc external power supply.

## Specifications

### RELAY

**Nominal Load:** 50 A/250 Vac,  
5 A/30 Vdc  
**Maximum Switching Power:** 0.1 HP

To Order	
Model No.	Description
OME-DB-24PR/24	24-channel power relay board (24V version) includes 1.5 m (5') 50-pin flat cable
OME-DB-24PR/12	24-channel power relay board (12V version) includes 1.5 m (5') 50-pin flat cable
OME-DB-24PR/24/DIN	OME-DB-24PR 24V version with DIN-rail mounting kit
OME-DB-24PR/12/DIN	OME-DB-24PR 12V version with DIN-rail mounting kit
OME-DB-24PRD/24	24-channel power relay board with 37-pin D-sub connector (24V version), includes 1 m 37-pin D-sub connector cable
OME-DB-24PRD/12	24-channel power relay board with 37-pin D-sub connector (12V version), includes 1 m 37-pin D-sub connector cable
OME-DB-24PRD/24/DIN	OME-DB-24PRD 24V version with DIN-rail mounting kit
OME-DB-24PRD/12/DIN	OME-DB-24PRD 12V version with DIN-rail mounting kit
OME-CA-2010	20-pin flat cable, 1 m (3')
OME-CA-2020	20-pin flat cable, 2 m (7')
OME-CA-5015	50-pin flat cable, 1.5 m (5')
OME-CA-3720	37-pin male-male D-sub connector cable 2 m (7')
OME-CA-3710	37-pin male-male D-sub connector cable 1 m (3')