



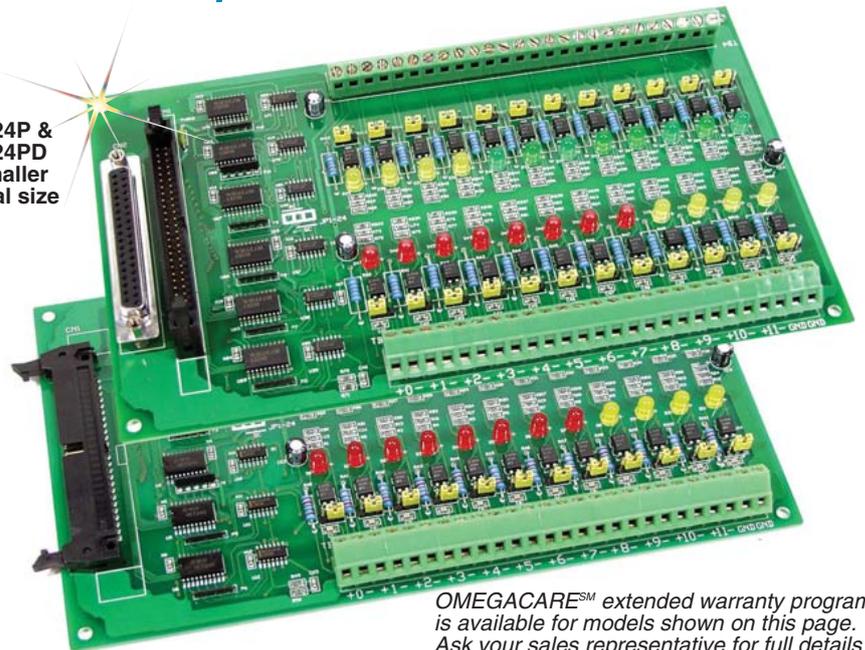
# 24-Channel OPTO-Isolated Input Board OME-DB-24P/OME-DB-24PD

## \$140

Basic Unit



OME-DB-24P & OME-DB-24PD shown smaller than actual size



- ✓ Optically Isolated Digital Input Channels
- ✓ Connects Directly to OME-PIO-D144
- ✓ AC/DC Signal Input
- ✓ AC Signal Input with Filter
- ✓ Input Buffer with Voltage Comparators
- ✓ Isolated Digital Input Sensing

The OME-DB-24P is a 24 channel isolated digital input daughter board for OME-PIO-D144 digital input board. The optically isolated inputs of the OME-DB-24P consist of a bi-directional opto-couplers with a resistor for current sensing. You can use the OME-DB-24P to sense DC signals from TTL levels up to 24 V. You can also use OME-DB-24P to sense a wide range of AC signals. The OME-DB-24P registers a constant logic high if the frequency of the input AC signal is greater or equal to 1 kHz, and if the voltage of the AC signal is at least 4 Vrms. If you are using an AC input signal, you must short the AC filter jumper. You can use the board to isolate the computer from large common-mode voltages, ground loops and voltage spikes that often occur in industrial environments.

### Specifications

#### I/O CONNECTOR ELECTRICAL SPECIFICATIONS

**Configuration:** 24 optically isolated digital input channels

**Compatibility:** TTL compatible

**Connector:** OME-DB-24P, one 50-pin header; OME-DB-24PD, one 50-pin header and one 37-pin D-sub connector

#### DIGITAL INPUT

**Number of channels:** 24, each with its own ground reference isolated from other channels

#### Maximum Input Voltage:

24 Vdc or 24 Vac

**Input Impedance:** 1.2 K

**SOURCE CURRENT**

**5 V inputs:** 4 mA per channel (min)

**24 V inputs:** 20 mA per channel (min)

**Response Time:** 20  $\mu$ s without filter/2.2 ms with filter

**Power Supplies:**

+5 V @ 336 mA max

**Dimensions:**

132 H x 220 mm W (5.2 x 8.7")

#### Digital Logic Level

Level	Minimum	Maximum
Input low voltage (DC or peak AC)	0	$\pm 1$ V
Input high voltage DC/KHz AC	$\pm 2.8$ Vdc 4 Vrms	$\pm 24$ Vdc 24 Vac

**Operating Temperature:** 0 to 60°C (32 to 140°F)

**Storage Temperature:** -20 to 70°C (-4 to 175°F)

**Humidity:** 5 to 90% RH non-condensing

OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners

**MOST POPULAR MODEL HIGHLIGHTED!**

#### To Order (Specify Model Number)

Model Number	Price	Description
<b>OME-DB-24P</b>	<b>\$140</b>	24-channel OPTO-22 compatible opto-isolated input board, includes 1.5 m (5') 50-pin flat cable
OME-DB-24P/DIN	145	OME-DB-24P with DIN-Rail mounting kit
OME-DB-24PD	140	24-channel OPTO-22 compatible opto-isolated input board with D-Sub 37 connector, includes 1 m (3') 37-pin D-sub connector cable
OME-DB-24PD/DIN	145	OME-DB-24PD with DIN-Rail mounting kit
OME-CA-5015	20	50-pin flat cable, 1.5 m (5')
OME-CA-3720	35	37-pin male-male D-sub connector cable 2 m (7')
OME-CA-3710	35	37-pin male-male D-sub connector cable 1 m (3')

Each board is supplied with complete operator's manual on CD ROM.

**Ordering Example:** OME-DB-24P 24-channel OPTO-22 compatible opto-isolated input board and OMEGACARE<sup>SM</sup> 1 year extended warranty for OME-DB-24P (adds 1 year to standard 1 year warranty), \$140 + 25 = \$165.



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Stamford, CT.

#### CANADA

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