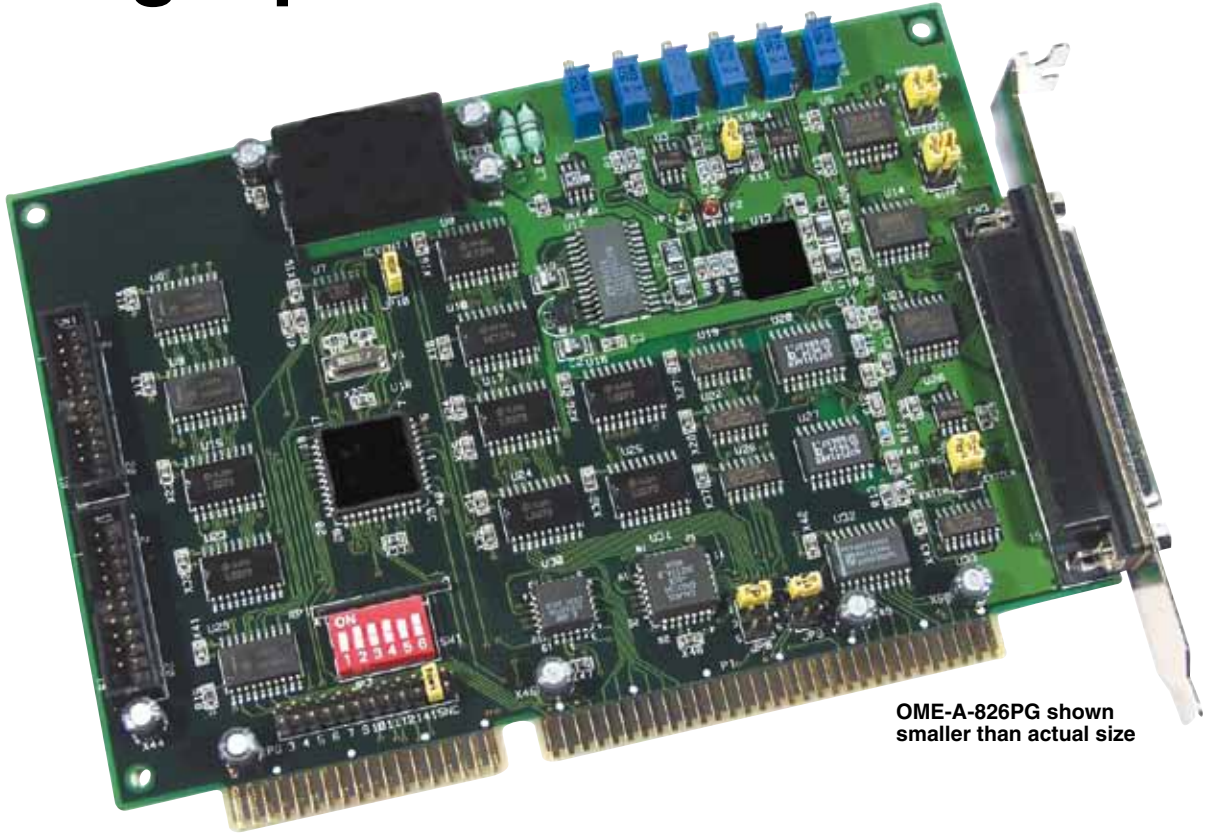


100K S/s 16-Channel 16-Bit Analog Input Board for the ISA Bus



OME-A-826PG shown smaller than actual size

OME-A-826PG



- ✓ 16-Bit A/D Converter
- ✓ 12-Bit D/A Converter
- ✓ 16 Single-Ended or 8 Differential Inputs
- ✓ 100 KS/s Sampling Rate
- ✓ Two 12-Bit Analog Output Channels
- ✓ A/D Data Transfer Modes: Polling, Interrupt, DMA
- ✓ 16 Digital Input & 16 Digital Outputs

The OME-A-826PG is a 16-bit multifunction analog and digital I/O board for PC/AT compatible computers. The OME-A-826PG offers 16 single-ended or 8 differential analog inputs, plus two channels of analog output with 12-bits resolution. In addition, the OME-A-826PG has 16 digital inputs, 16 digital outputs and one counter/ timer channel. The OME-A-826PG provides gains of 1, 2, 4 and 8. It has a maximum sampling rate of 100 KS/s. DMA operation is jumper selectable for levels 1 or 3. Interrupts are jumper selectable between 3 and 15.

Software Development Kit

All data acquisition boards are supplied with a standard software development kit for Windows 98/NT/2000/XP. The software development kit includes DLL files for programming in C, C++ or other high level languages and OCX files for Visual Basic or Active X programming. LabView drivers are also included.

Specifications

ANALOG INPUT

Channels: 16-channel single-ended or 8-channel differential

Input Ranges:

+10V, +5V, +2.5V, +1.25V

Resolution: 16-bits

Conversion Rate: 100 KS/s

Input Impedance: 10,000Ω//6pf

Overvoltage Protection: ±35V

Linearity: ±1-bit

Sample & Hold: on chip

Zero Drift: 19 ppm/°C of full scale

D/A OUTPUTS

Channels: 2 independent

Type: 12-bit double buffers

Linearity: 0.006% FS

Output Driving: 5 mA

Output Range: 0 to 5V or 0 to 10V

External Reference: Max ±10V

Output Current: ±5 mA

DIGITAL I/O

Inputs: 16 (LSTTL)

Input Low: VIL = 0.8V max

IIL = -0.4 mA max

Input High: VIH = 2.0V min

IIH = 20 µA max

Outputs: 16 channel TTL levels

Outputs Low: VOL = 0.5V max

@ IOL = 8 mA max

Outputs High: VOH = 2.7V min

IOH = -400 µA max

COUNTER/TIMER

Programmable Internal Timer:

(0.0045 Hz 0.5 MHz)

Type: 82C54

A/D Pacer: 16-bit counter

Interrupt Channel:

3-15 jumper selectable

General Environmental

Power Requirements:

+5V @ 650 mA (max)

Operating Temperature:

0 to 50°C (32 to 172°F)

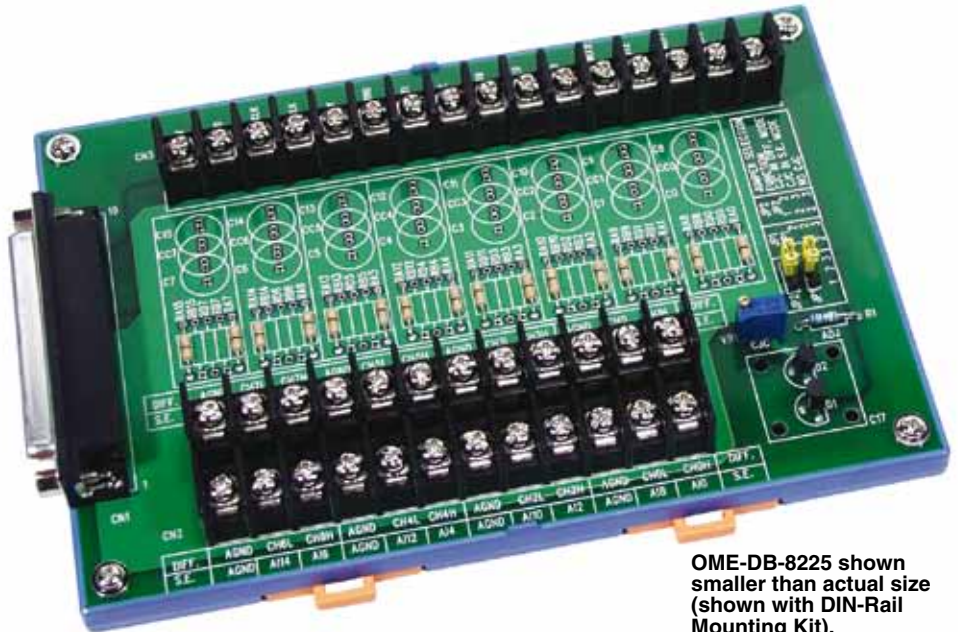
Storage Temperature:

-20 to 70°C (-4 to 158°F)

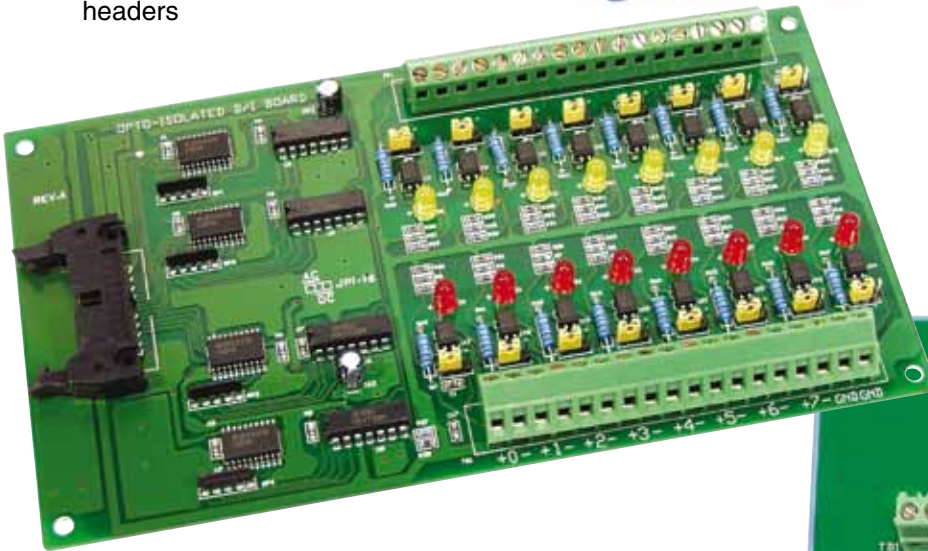
Humidity: 0 to 90% RH non-condensing

Dimensions: 122 H x 170 mm W (4.8 x 6.7")

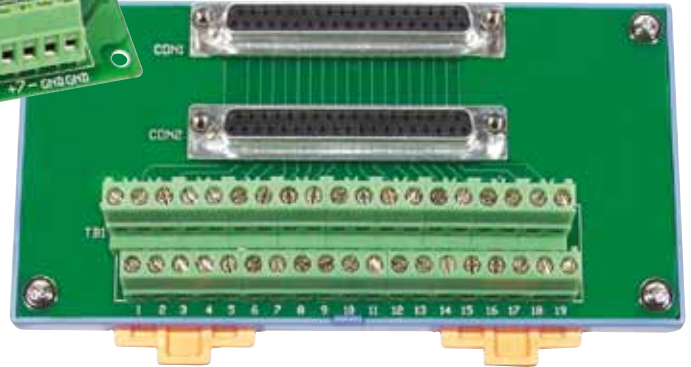
Connector: analog I/O, 37-pin D-Sub; digital I/O, two 20-pin headers



OME-DB-8225 shown smaller than actual size (shown with DIN-Rail Mounting Kit).



OME-DB-16P shown smaller than actual size.



OME-DN-37 shown smaller than actual size (shown with DIN-Rail Mounting Kit).



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

To Order

Model Number	Description
OME-A-826PG	100 KS/s 16-bit multi-function board
OME-DB-8225/1	Screw terminal board for analog I/O with 1 m (3') 37-pin D-sub cable
OME-DB-8225/2	Screw terminal board with 2 m (7') 37-pin D-sub cable
OME-DB-37	Direct connect 37-pin terminal board
OME-DN-37	37-pin D-Sub DIN rail mount I/O connector board (two 37-pin D-Sub connectors, one for expansion) for analog inputs, includes one 1 m (3') cable
OME-DB-889D	16-channel analog multiplexer board, includes 1 m (3') cable
OME-DB-16P	16-channel isolated digital input board, includes 1 m (3') cable
OME-DB-16R	16-channel relay output board, includes 1 m (3') cable

OME-A-826PG comes complete with operator's manual and software development kit on CD ROM.

Ordering Example: OME-A-826PG 16-bit multi-function board, and OCW-1, OMEGACARESM extends standard 1-year warranty to a total of 2 years.