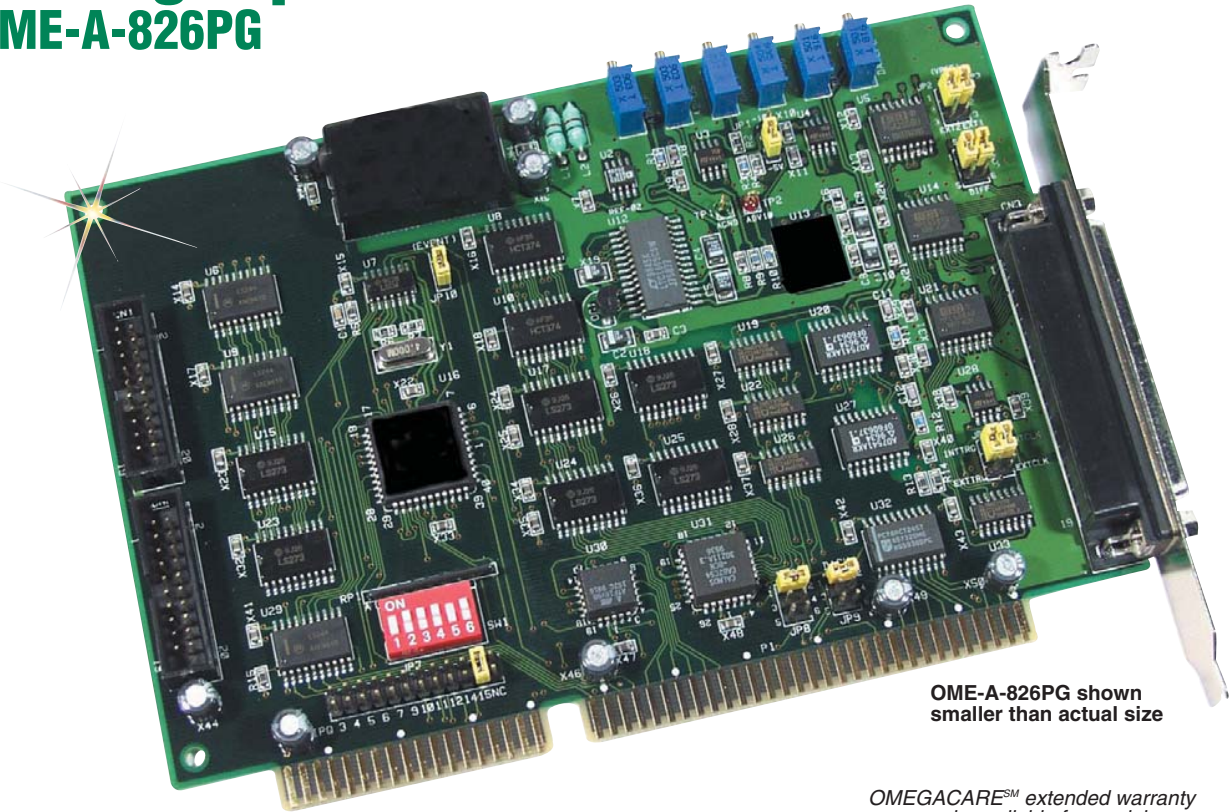


# 100K S/s 16-Channel 16-Bit Analog Input Board for the ISA Bus OME-A-826PG



OME-A-826PG shown smaller than actual size

**\$639**

Basic Unit



- ✓ 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.

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.

### Specifications

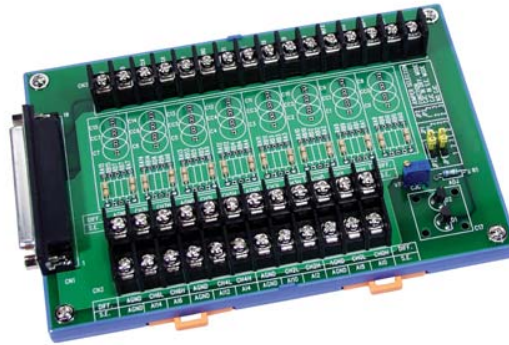
**ANALOG INPUT**  
**Channels:** 16-channel single-ended or 8-channel differential  
**Input Ranges:**  $\pm 10$  V,  $\pm 5$  V,  $\pm 2.5$  V,  $\pm 1.25$  V  
**Resolution:** 16-bits  
**Conversion Rate:** 100 KS/s  
**Input Impedance:** 10,000 $\Omega$ //6pf  
**Overvoltage Protection:**  $\pm 35$  V  
**Linearity:**  $\pm 1$ -bit  
**Sample & Hold:** on chip  
**Zero Drift:** 19 ppm/ $^{\circ}$ 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 5 V or 0 to 10 V  
**External Reference:** Max  $\pm 10$  V  
**Output Current:**  $\pm 5$  mA

**DIGITAL I/O**

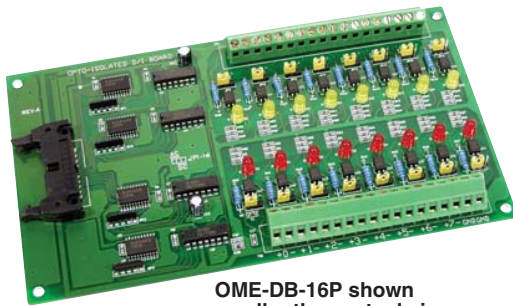
**Inputs:** 16 (LSTTL)  
**Input Low:** VIL = 0.8 V max  
 IIL = -0.4 mA max  
**Input High:** VIH = 2.0 V min  
 IIH = 20 µA max  
**Outputs:** 16 channel TTL levels  
**Outputs Low:** VOL = 0.5 V max  
 @ IOL = 8 mA max  
**Outputs High:** VOH = 2.7 V min  
 IOH = -400 µA max



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

**General Environmental Power Requirements:**

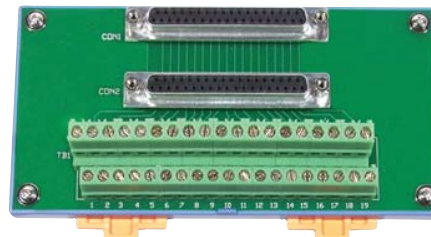
+5 V @ 650 mA (max)  
**Operating Temperature:**  
 0 to 50°C (32 to 172°F)  
**Storage Temperature:**  
 -20 to 70°C (-4 to 158°F)  
**Software:** Windows 95/98/NT  
**Humidity:** 0 to 90% RH non-condensing  
**Dimensions:** 122 H x 170 mm W (4.8 x 6.7")  
**Connector:** analog I/O, 37-pin D-Sub; digital I/O, two 20-pin headers



OME-DB-16P shown smaller than actual size

**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



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

**ALL MODELS AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)		
Model Number	Price	Description
OME-A-826PG	\$639	100 KS/s 16-bit multi-function board
OME-DB-8225/1	89	Screw terminal board for analog I/O with 1 m (3') 37-pin D-sub cable
OME-DB-8225/2	99	Screw terminal board with 2 m (7') 37-pin D-sub cable
OME-DB-37	69	Direct connect 37-pin terminal board
OME-DN-37	79	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	359	16-channel analog multiplexer board, includes 1 m (3') cable
OME-DB-16P	99	16-channel isolated digital input board, includes 1 m (3') cable
OME-DB-16R	149	16-channel relay output board, includes 1 m (3') cable

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

Ordering Example: OME-A-826PG 16-bit multi-function board, and OMEGACARE<sup>SM</sup> 1 year extended warranty for OME-A-826PG (adds 1 year to standard 1 year warranty), 639 + 60 = \$699.

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