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
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
III = -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
To Order

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>OME-A-826PG</td>
<td>100 KS/s 16-bit multi-function board</td>
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<tr>
<td>OME-DB-8225/1</td>
<td>Screw terminal board for analog I/O with 1 m (3') 37-pin D-sub cable</td>
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<tr>
<td>OME-DB-8225/2</td>
<td>Screw terminal board with 2 m (7') 37-pin D-sub cable</td>
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<tr>
<td>OME-DB-37</td>
<td>Direct connect 37-pin terminal board</td>
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<tr>
<td>OME-DN-37</td>
<td>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</td>
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<tr>
<td>OME-DB-889D</td>
<td>16-channel analog multiplexer board, includes 1 m (3') cable</td>
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<tr>
<td>OME-DB-16P</td>
<td>16-channel isolated digital input board, includes 1 m (3') cable</td>
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<tr>
<td>OME-DB-16R</td>
<td>16-channel relay output board, includes 1 m (3') cable</td>
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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, OMEGACARE® extends standard 1-year warranty to a total of 2 years.