

30 KS/s 12-Bit Analog and Digital I/O Board for the ISA Bus OME-A-8111

\$279
Basic Unit



- 12-Bit A/D Converter
- 8 Single-Ended Input Channels
- 30 KS/s Sampling Rate
- One 12-Bit Analog Output Channel
- Software Programmable Gain: 1, 2, 4, 8, 16
- A/D Trigger Modes: Software Trigger, Pacer Trigger
- A/D Data Transfer Modes: Polling, Interrupt
- 16 Digital Inputs and 16 Digital Outputs

The OME-A-8111 is a 12-bit multi-function analog and digital I/O board for PC/AT compatible computers. The OME-A-8111 offers 8 analog input channels, plus one channel of analog output with 12-bit resolution. In addition, the OME-A-8111 has 16 digital inputs and 16 digital outputs. The OME-A-8111 provides gains of 1, 2, 4, 8, 16. It has a maximum sampling rate of 30 KS/s.

Software Development Kit

All 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: 8 single-ended channels
Input Range: ± 5 V, ± 2.5 V, ± 1.25 V, ± 0.625 V, ± 0.3125 V
Resolution: 12-bits
Conversion Rate: 30 KS/s
Input Impedance: 10 M Ω /6 pf
Overvoltage Protection: ± 35 V
Linearity: ± 1 bit
Sample & Hold: on chip
Zero Drift: ± 25 ppm/ $^{\circ}$ C of full scale



OME-A-8111, \$279, shown smaller than actual size

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

D/A OUTPUTS

Channels: 1 independent
Type: 12-bit double buffers
Linearity: 0.006% FS
Output Range: 0 to 5 V or 0 to 10 V
Internal Reference: +10 V or -10 V
Output Driving: ± 5 mA
DIGITAL I/O
Input: 16 (LSTTL)
Input Low: $V_{IL} = 0.8$ V max
 $I_{IL} = -0.4$ mA max
Input High: $V_{IH} = 2.0$ V min
 $I_{IH} = 20$ μ A max
Outputs: 16 channel TTL levels
Outputs Low: $V_{OL} = 0.5$ V max
 $I_{OL} = 8$ mA max

Outputs High: $V_{OH} = 2.7$ V min
 $I_{OH} = -400$ μ A max

General Environmental Power Requirements:

+5V @ 200 mA (max)
Operating Temperature: 0 to 50 $^{\circ}$ C (32 to 122 $^{\circ}$ F)

Storage Temperature: -20 to 70 $^{\circ}$ C (-4 to 176 $^{\circ}$ F)

Humidity: 0 to 90% RH non-condensing

Dimensions: 157 H x 106 mm W (6.18 x 4.17")

IN STOCK FOR FAST DELIVERY!

To Order (Specify Model Number)

Model Number	Price	Description
OME-A-8111	\$279	30 KS/s 12-bit multi-function board
OME-DB-37	79	Direct connect 37-pin screw terminal board for analog I/O
OME-DN-37	89	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	399	16-channel analog input multiplexer board, includes 1 m (3') cable
OME-DB-16P	109	16-channel Isolated digital input board, includes 1 m (3') cable
OME-DB-16R	169	16-channel relay output board, includes 1 m (3') cable
OME-DB-24C	229	24-channel open-collector output board, includes 1 m (3') cable
OME-DB-24SSR	719	24-channel SSR output board

All boards include utility software and a complete user's manual on CD-ROM.
Ordering Example: OME-A-8111 12-bit multi-function board and OMEGACARESM 1 year extended warranty for OME-A-8111 (adds 1 year to standard 1 year warranty), \$279 + 27 = \$306.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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