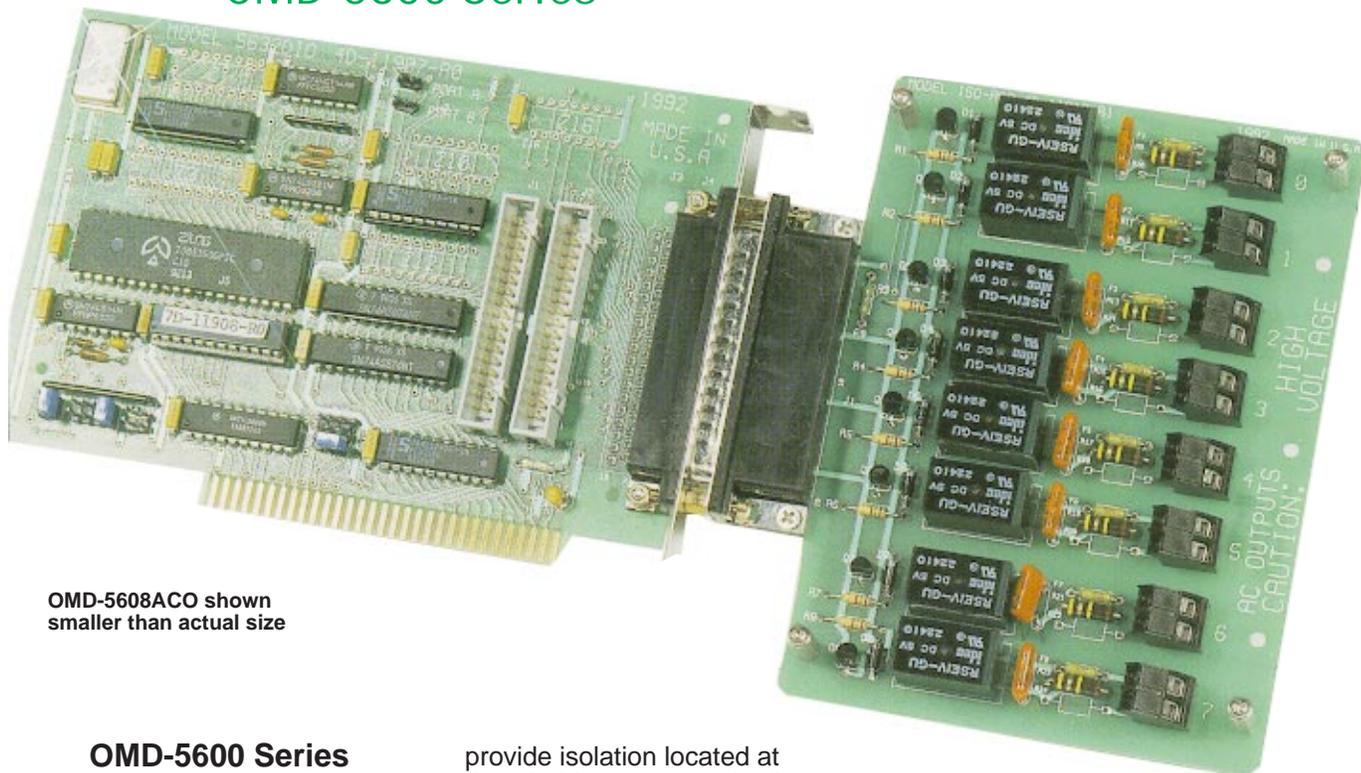




Digital Input/Output Boards for IBM PCs and Compatibles

OMD-5600 Series



OMD-5608ACO shown smaller than actual size

OMD-5600 Series
\$295
 Basic Unit

HANDLE REAL WORLD SIGNALS WITHOUT ADDITIONAL SIGNAL CONDITIONERS

OMEGA's OMD-5600 series digital input/output boards are unique in the world of PC plug-in data acquisition. Designed to simplify signal connection, each I/O board includes a detachable screw terminal panel that mates with the board connector at the rear of the PC. Integral signal conditioning at the terminal panel allows the OMD-5600 boards to accept ac and dc field wiring directly, eliminating costs associated with external signal conditioners, cables and power supplies.

4000 V ISOLATED INDUSTRIAL I/O

To prevent potentially devastating voltages from entering the host computer, the OMD-5600 series

provide isolation located at detachable screw terminations outside the PC. Most models are standard with 4000 Vrms optical or mechanical isolation. A perfect fit for heavy duty applications.

ADVANCED INTERRUPT CAPABILITIES

All of the OMD-5600 boards provide advanced interrupt capabilities. An interrupt may be generated from the I/O lines by a specified bit change of state or a bit maskable pattern match. The boards may also be configured to provide rate programmable periodic interrupts.

EXPANSION

Each OMD-5600 is supplied with an integral 8, 16 or 32 channel terminal panel. The boards which use 8 or 16 panels (OMD-5608ACI, OMD-5608ACO, OMD-5616DCI, OMD-5616DCO) may be expanded to access an additional 8 or 16 points by installing one of three expansion panels. All channels on the expansion panels provide 4000 Vrms optical isolation. Expansion panels are mounted adjacent to the standard panel and use an additional PC slot space.

Model No.	I/O Channels	Input Type	Output Type	Expandable
OMD-5608ACI	8 Input	120 or 240 Vac	N/A	Yes
OMD-5608ACO	8 Output	N/A	Mech. Relays	Yes
OMD-5616DCI	16 Input	24 or 48 Vdc	N/A	Yes
OMD-5616DCO	16 Output	N/A	24/48 Vdc	Yes
OMD-5616CCI	16 Input/ 16 Output	Contact Closure	TTL	No
OMD-5632TTL	32 Total	16 TTL*	16 TTL*	No

* The OMD-5632TTL has 16 lines dedicated as outputs, and an additional 16 lines configurable in groups of 8 as either inputs or outputs.



OMD-ACI-EX AC INPUT EXPANSION PANEL

Screw termination panel which adds 8 lines of 120 or 240 Vac input detection. Compatible with OMD-5608ACI board.

OMD-ACO-EX AC OUTPUT EXPANSION PANEL

Screw termination panel which adds 8 relays for 120/240 Vac output switching. Compatible with the OMD-5608ACI, OMD-5608ACO, OMD-5616DCI and OMD-5616DCO boards.

OMD-DCO-EX DC OUTPUT

Screw termination panel to add 16 lines of dc output switching. Compatible with the OMD-5608ACI, OMD-5608ACO, OMD-5616DCI and OMD-5616DCO boards.

Specifications

OMD-5608ACI & OMD-ACI-EX

Number Of Inputs: 8

Input Type: 120/240 Vac

Isolation: 4000 VRMS optical isolation input-to-output, 1500 Vrms isolation channel-to-channel

OMD-5608ACO & OMD-ACO-EX

Number of Outputs: 8

Output Type: Relay

Max Switched Output: 250 Vac, 60 Vdc

Max Switched Current: 5A

Max Switching Power

Resistive Load: ac 550 VA, dc 120 W

Inductive Load: ac 220 VA, dc 48 W

Minimum Load: 5 Vdc @ 1 mA

Isolation: 4000 Vrms optical isolation input-to-output, 1500 Vrms isolation channel-to-channel

OMD-5616DCI

Number of Inputs: 16

Input Type: 24/48 Vdc

Isolation: 4000 Vrms optical isolation input-to-output, 750 Vrms isolation channel-to-channel

OMD-5615DCO & OMD-DCO-EX

Number of Outputs: 16

Output Type: 24/48 Vdc

Max Switched Output: 400 mA @ 60 Vdc

Voltage Drop: 1.2 V Max

Isolation: 4000 Vrms optical isolation input-to-output, 750 Vrms isolation channel-to-channel

OMD-5616CCI

Number of Inputs: 16

Number of Outputs: 16

Input Types: debounced contact closure detection

Output Type: TTL Level (high = 2.0 V min @ 15 mA sourcing; low = 0.5 V max @ 48 mA sinking)

Input Termination: 20 kΩ to +5 V

OMD-5632TTL

Number of Inputs: 16 user configured as inputs or outputs in groups of 8

Number of Outputs: 16 dedicated outputs

Input Type: TTL level (high = 2.0 V min, low = 0.8 V max)

Output Type: TTL Level (high = 2.0 V min @ 15 mA sourcing; low = 0.5 V max @ 48 mA sinking)

PHYSICAL & ENVIRONMENTAL

Board Size: 99 x 152 mm (3.9" x 6.0")

Connector: 37 pin D sub-miniature brought to outside of PC

Expansion Connector: 34 pin header

Screw Terminations: clamping terminals to accept 14-22 AWG wire

Temperature Range: 0 to 55°C (32 to 132°F)

Power Consumption: +5 V @ 650 mA, +325 mA per ACO panel, + 625 mA per DCO panel

To Order (*Specify Model Number*)

Model No.	Price	Description
OMD-5608ACI-[*]	\$550	ac input board
OMD-5608ACO	550	ac output board
OMD-5616DCI-[*]	495	dc input board
OMD-5616DCO	595	dc output board
OMD-5616CCI	395	Contact closure input board
OMD-5632TTL	295	General purpose TTL board

* Specify 120 for 120 Vac or 240 for 240 Vac inputs

** Insert 24 for 24 Vdc inputs or 48 for 48 Vdc inputs

All OMD-5600 series boards include terminal panel and user's manual

Ordering Example: OMD-5608ACI-120 ac input board with OMD-ACO-EX ac output expansion panel and connecting cable, \$550 + 350 = \$900.

Accessories

Model No.	Price	Description
OMD-ACI-EX-[*]	\$250	ac input expansion panel and connecting cable
OMD-ACO-EX	350	ac output expansion panel and connecting cable
OMD-DCO-EX	295	dc output expansion panel and connecting cable
ADLIBPC-3.5	50	Software drivers for Microsoft BASIC, Fortran, Pascal, QuickBASIC, C and Quick C

* Specify 120 for 120 Vac or 240 for 240 Vac inputs.

U.S. AND CANADA

For placing orders, call
1-800-82-66-4124
1-800-76-6644

For technical assistance, call
1-800-827-4888
1-800-827-1888