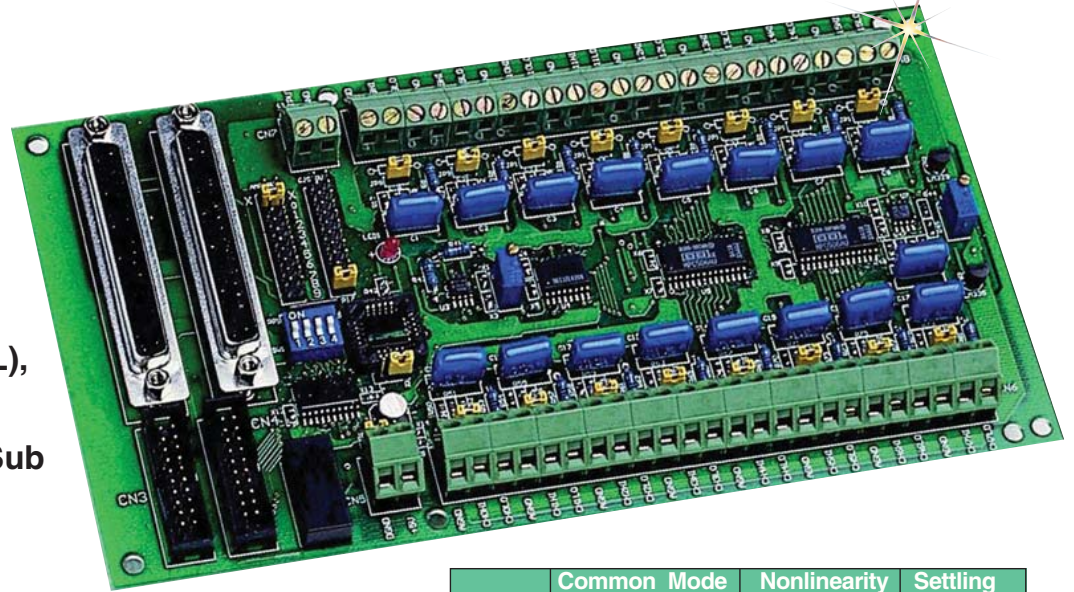


16-Channel Analog Multiplexer Board

OME-DB-889D

\$340
Basic Unit



- ✓ Connects Directly to OME-PCI-1800 (H/L), OME-PCI-1802 (H/L), OME-A-822PG, OME-A-8111 with D-Sub 37-Pin Connectors
- ✓ Cold Junction Compensation for Thermocouples, Thermocouple Open Circuit Detection
- ✓ Input Filtering
- ✓ Software Programmable Instrumentation Amplifier Gains of 0.5, 1, 5, 10, 50, 100, 500, 1000
- ✓ Daisy Chain up to 10 OME-DB-889Ds

OME-DB-889D, \$359, 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.

Gain	Common Mode Rejection	Nonlinearity % of FSR	Settling Time
0.5	99 dB, ±0.001	±0.0004	23 us
1	99 dB, ±0.001	±0.0004	23 us
5	114 dB, ±0.001	±0.0004	28 us
10	114 dB, ±0.002	±0.0004	28 us
50	123 dB, ±0.002	±0.0004	140 us
100	123 dB, ±0.002	±0.0004	140 us
500	123 dB, ±0.01	±0.0008	1300 us
1000	123 dB, ±0.01	±0.0008	1300 us

The OME-DB-889D is an expansion multiplexer/amplifier board for use with OME-PCI-1800 series families. Each OME-DB-889D multiplexes 16 differential analog input channels into one analog input of the DAS board. The high grade instrumentation amplifier provides software programmable gains of 0.5, 1, 5, 10, 50, 100, 500 and 1000. Thermocouple measurements are handled easily with the OME-DB-889D. The board includes cold-junction sensing and compensation circuitry that provides a scaling of 24.4 mV/°C. Biasing resistors are included for open thermocouple detection. The OME-DB-889D can be cascaded to a total of 128 channels of voltage measurements or 112 channels of thermocouple measurement.

The OME-DB-889D has two 37-pin D-sub connectors and two 20-pin headers. One D-sub connector gets connected to the A/D board's analog input connector while the other D-sub connector can be used to cascade to another OME-DB-889D multiplexer.

The 20-pin header is the multiplexer's control logic circuit. One of the 20-pin headers is connected to the A/D board's digital output port via 20-pin flat cable. The other 20-pin header is used to cascade to another OME-DB-889D multiplexer.

Specifications

Accepts Thermocouple Type: J, K, T, E, S, R, B
Cold Junction Compensation: +24.4 mV/°C (0.1°C/bit), 0.0 V at 0.0°C

Over Voltage Protection: ±30 V continuous
Common Mode Voltage: ±10 V max
Analog Output Voltage: ±10 V
Power Requirement: +5 V @ 120 mA
Dimensions: 114 H x 203 mm W (4.5 x 8.0")
Operating Temperature: 0 to 50°C (32 to 122°F)
Storage Temperature: -20 to 70°C (-4 to 158°F)
Humidity: 5 to 90% RH non-condensing

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model Number	Price	Description
OME-DB-889D	\$359	16-channel analog input mux board
OME-CA-3710	39	37-pin D-sub connector cable, 1 m (3')
OME-CA-2010	10	20-pin flat cable, 1 m (3')

Each OME-DB-889D board includes complete operator's manual on CD ROM.
Ordering Example: OME-DB-889D analog multiplexer, OME-CA-3710 37-pin cable, OME-CA-2010 20-pin cable and OMEGACARESM 1 year extended warranty for OME-DB-889D (adds 1 year to standard 1 year warranty), \$359 + 39 + 10 + 34 = \$442.

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• Flow and Level

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• Heaters

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