

OMD-5508SHR and OMD-5508HR High Resolution Analog Input Direct Connect Boards

For IBM PC/XT/AT



\$895
Basic Unit

- ✓ 16 Bit A/D Resolution
- ✓ 8/16 Analog Inputs (8 only with OMD-5508SHR)
- ✓ ± 10 V to ± 2.5 V Full Scale Inputs
- ✓ Up to 50 kHz Throughput
- ✓ 8 Digital I/O Bits
- ✓ Two User Accessible Counters
- ✓ Utility Software Included

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ANALOG INPUT AND
MULTI-FUNCTION CARDS

The Model OMD-5508SHR super high resolution analog input board offers eight differential channels of analog inputs that can be sampled up to 50 kHz with true 16-bit resolution. The OMD-5508HR is a lower cost version of the OMD-5508SHR which, although featuring a 16 bit A/D converter, has 14 bits of guaranteed resolution. The OMD-5508HR allows eight differential or 16 single ended inputs with up to 15 kHz sample rate.

Both boards are supplied with the OMD-DC-36 mating screw termination panel to accept field wiring directly. Also included is Windows software, which provides a complete tutorial for board setup, including jumper settings, field wiring and board operation, as well as datalogging and display of inputs. After board setup, the software can be used for low speed data acquisition (1 Hz).

A/D CONVERTER

Number of Inputs: 8 fully differential or 16 single ended (OMD-5508HR only)

RESOLUTION

OMD-5508SHR: 16 bits guaranteed no missing code

OMD-5508HR: 16 bits

Differential Linearity

OMD-5508SHR: 16 bits

OMD-5508HR: 14 bits

Total Hardware Conversion Time:

OMD-5508SHR: 20 μ sec

OMD-5508HR: 60 μ sec

Full Scale Ranges:

OMD-5508SHR: ± 10 V, 0 to 10 V (software selectable)

OMD-5508HR: ± 10 V, ± 5 V, ± 2.5 V, 0 to 5 V and 0 to 10 V (jumper selectable)

Input Impedance: shunt resistor to ground, 10 megohms; shunt capacitance, 100 pf; series res: 1000 ohms

DIGITAL INPUTS/OUTPUTS

Number: 8 bits

Input Level: TTL with 4.7 kohm pull-up resistor

I/O Direction Select: software selectable in two groups of four

Maximum Output Current: low: 23 mA (sinking); high: 15 mA (sourcing)

GENERAL

Dimensions: 99 H x 152.5 mm W (3.9" x 6.0")

Connector: 37-pin standard D subminiature socket brought to outside of PC

Screw Termination Panel: 51 x 108 mm (2.0" x 4.25") PC board with 36 clamping terminals to accept 14-22 AWG wire

Power Consumption: +5 V, 0.6 A; +12 V, 50 mA; -12 V, 60 mA

To Order (<i>Specify Model Number</i>)		
Model No.	Price	Description
OMD-5508SHR	\$1295	8 analog inputs with TRUE 16-bit resolution
OMD-5508HR	895	8/16 analog inputs, 16-bit resolution
OMD-DC-36	65	Additional screw termination panel
ADLIBPC-3.5	50	Software drivers for Microsoft BASIC, Fortran, Pascal, QuickBASIC, C and Quick C. Provided on 3.5" disk. (DOS only)

Comes with screw termination panel and complete operator's manual.

Ordering Example: OMD-5508SHR analog input module, plus additional OMD-DC-36 screw termination panel, \$1295 + 65 = \$1360.