# A/D Plug-In Card for IBM PC/XT/AT and Compatibles OMD-5508 MF

## $595
**Basic Unit**

✔ **8 Differential/16 Single-Ended Analog Inputs**
✔ **Voltage or Current Inputs**
✔ **Software Programmable Ranges**
✔ **8 Channels of Digital I/O**
✔ **3 Counter/Timers**

The OMEGA OMD-5508MF is an A/D plug-in card for the IBM PC and compatibles. The OMD-5508MF is a half-size card with 16 single-ended, 16 pseudo-differential, or 8 fully differential high level (voltage or current) analog inputs. Total hardware conversion time is approximately 15 microseconds. Maximum throughputs of 60 kHz can be achieved when operating under DMA control. The card also has eight lines of TTL level digital I/O and three counter/timer channels.

The OMD-5508MF is supplied with the OMD-DC-36 mating screw termination panel to accept field wiring directly. This terminal panel permits measurement of analog voltages. For current measurements (4-20 mA), the OMD-5508CL is recommended. (Both versions use the same board but include different termination panels.) A user may purchase additional termination panels to provide a quick connection mechanism between the computer and sensors in remote locations.

Included with all OMD-5508 boards is a Windows 3.1 software package, called DirectView for Windows, which allows datalogging and display of inputs, as well as setup assistance. The friendly menu-driven interface guides the user through board jumper settings, with help screens describing the function of each jumper. Once the board has been configured, the software can be used to perform low speed (1 Hz). A DOS version of Directview is also available.

### ANALOG INPUTS
**Number of Inputs:** 16 single-ended, 16 pseudo-differential, 8 fully differential
**Full Scale Ranges:** ±10 V, 0 to 10 V, ±5 V (jumper selectable)
**Programmable Gain:** 1, 2, 4, 8 software programmable Resolution: 12 BIT (24 mV on ±5 or 0 to 10 V range)
**Throughput:** 60 kHz
**Input Impedance:** shunt resistance to ground, 10 megohms

### A/D TRIGGER
**Source:** counter 0 output, direct external trigger, or software trigger, jumper selectable

### DIGITAL INPUTS/OUTPUTS
**Number:** 8, software selectable in groups of four as inputs or outputs
**Input Level:** TTL with 4.7 kohm pull-up resistor
**Maximum Output Current Low:** 23 mA (sinking); High: 15 mA (sourcing) @ 2.0 V, 3 mA @ 2.4 V

### PROGRAMMABLE INTERVAL TIMER
**Type:** 8254
**Number:** three 16-bit counters, one dedicated for A/D conversions, two user accessible
**Size:** 99 x 152 mm (3.9" x 6.0")
**Weight:** 292 g (11.5 oz.)

## To Order *( Specify Model Number)*

| Model No. | Price | Description |
|---|---|---|
| **OMD-5508MF** | $595 | 8/16 Channel multi-function board, includes OMD-DC-36 termination panel |
| **OMD-5508CL** | 635 | 8/16 Channel multi-function board, includes one OMD-DC-36CL with 25 ohm precision resistors for current measurement |
| **OMD-DC-36** | 65 | Additional termination panel |
| **OMD-DC-36CL** | 105 | Additional termination panel for current loop inputs |
| **ADLIBPC-3.5** | 50 | Software drivers for Microsoft Fortran, Pascal, BASIC and C. Provided on 3.5" disk. (DOS only) |

Comes with Windows software and complete operator's manual.
***Ordering Example:*** OMD-5508CL 8/16-channel multi-function board, includes one OMD-DC-36CL termination panel, **$635.**