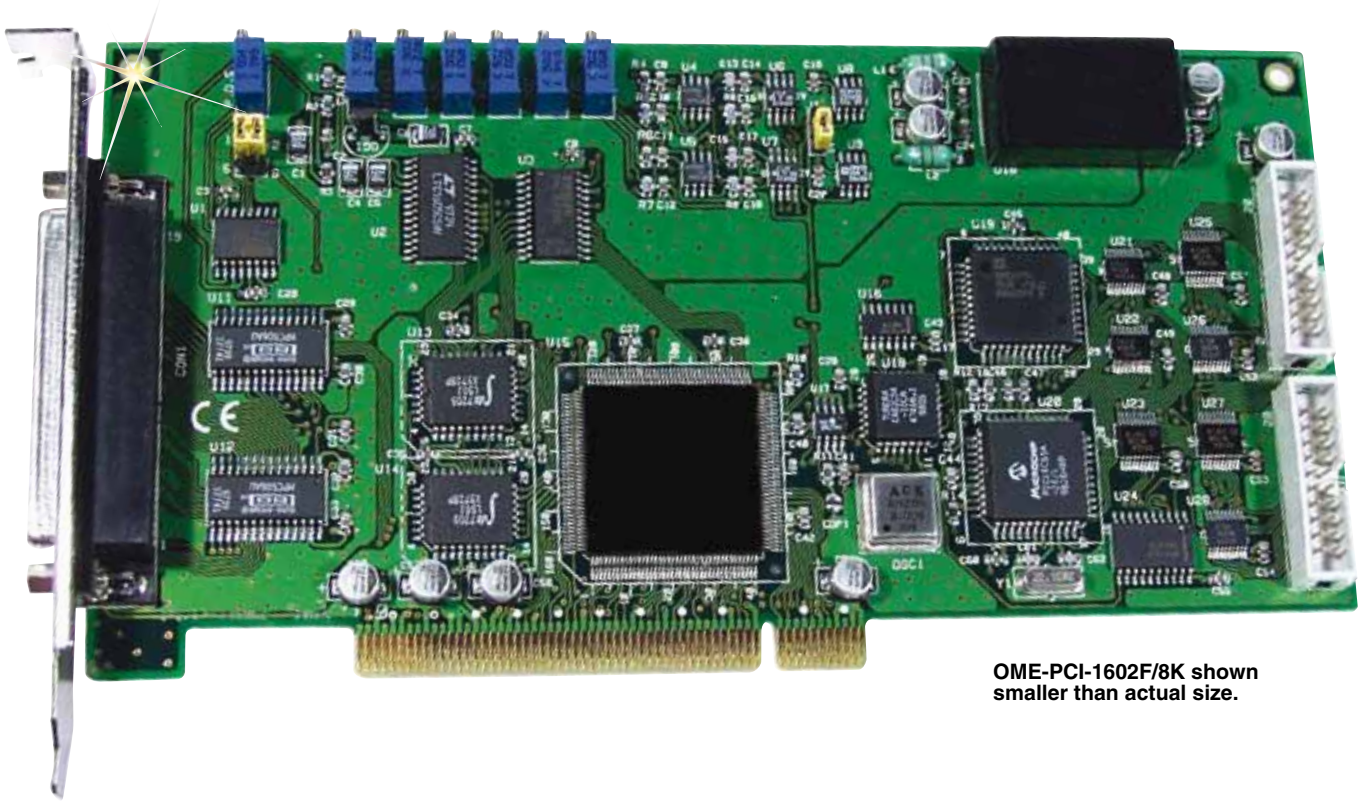


100 KS/s and 200 KS/s 16-Bit High Performance Analog and Digital I/O Boards



OME-PCI-1602F/8K shown smaller than actual size.

OME-PCI-1602/
OME-PCI-1602F



- ✓ PCI Bus
- ✓ OME-PCI-1602 16-Bit 100 KHz A/D Converter
- ✓ OME-PCI-1602F 16-Bit 200 KHz A/D Converter
- ✓ 32 Single-Ended/
16 Differential Inputs
8 K Word FIFO Buffer
- ✓ Trigger Methods:
Software Trigger, Pacer
Trigger, External Triggers
- ✓ External Triggers:
Post-Trigger, Pre-Trigger,
External Pacer Trigger

- ✓ 16 Digital Input/16 Digital Output Channels
- ✓ Programmable Low Gain: 0.5, 1, 2, 4, 8
- ✓ Internal/External Trigger
- ✓ Two 12-Bit Independent Programmable DAC's; 2 MHz Throughput per Channel (max)
- ✓ 2.7 M Word/High Speed Data Transfer Rate

The OME-PCI-1602/1602F series is a family of high performance and high resolution data acquisition board for the PCI bus. They feature a continuous, 100/200 KHz, gap-free data acquisition under DOS and Windows. The OME-PCI-1602 Series provides 32-channel single-ended or 16-channel differential analog inputs, two analog outputs, 16 digital input and 16 digital output channels.

Software Development Kit

All data acquisition boards are supplied with a standard software development kit for Windows XP/Vista/7. 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. OME-PCI Series data acquisition boards are also compatible with the DasyLab Windows software.

Specifications

ANALOG INPUT SPECIFICATIONS

Input Channel: 32 S.E./16 Diff

Resolution: 16-bits

Conversion Rate:

OME-PCI-1602: 100 KS/s max.

OME-PCI-1602F: 200 KS/s max.

Range: $\pm 10V$, $\pm 5V$, $\pm 2.5V$, $\pm 1.25V$, $\pm 0.625V$

Input Impedance:

10,000 M Ω // 6pf

ON Board FIFO: 8K

D/A OUTPUTS

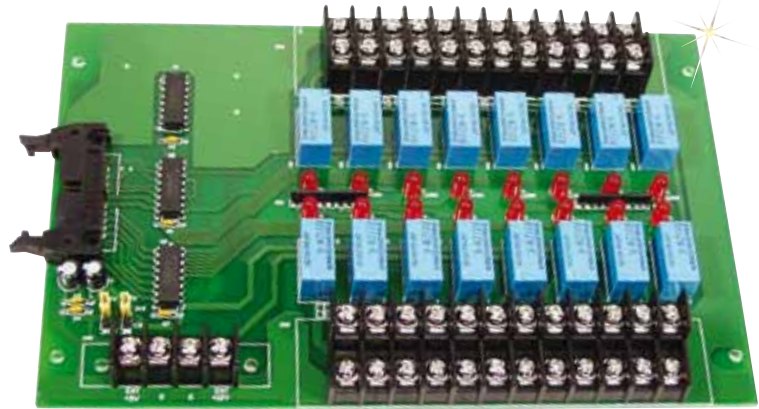
Channels: 2
Type: 12 bit double buffers
Linearity: 0.06% FS
Settling Time: 0.4 mS
Output Range: $\pm 5V$ or $\pm 10V$
Output Driving: ± 5 mA

DIGITAL I/O

Inputs: 16-channels; TLL levels
Input Low:
 V_{IL} low = 0.8V max,
 I_{IL} low = 4 mA
Input High:
 V_{IH} high = 2.0V min,
 I_{IH} high = -20 μ A max
Outputs: 16-channels; TLL levels
Output Low:
 V_{OL} = 0.33V max,
 I_{OL} = 4 mA max
Output High:
 V_{OH} = 3.84V min,
 I_{OH} = -400 μ A max

TIMER

Internal Pacer Timer:
 16-bit, 8 MHz input
External Pacer Timer:
 16-bit, 8 MHz input
Machine Independent Timer:
 16-bit, 8 MHz input
Power Requirements:
 +5V @ 350 mA (max)
Operating Temperature:
 0 to 50°C (32 to 122°F)



OME-DB-16R shown smaller than actual size.

Storage Temperature:

-20 to 70°C (-4 to 158°F)

Humidity:

0 to 90% RH

non-condensing

Dimensions:

190 L x 105 mm H

(7.5 x 4.1")

Overvoltage Protection:

$\pm 35V$

Linearity:

± 1.5 LSB

Programmable Gain:

0.5, 1, 2, 4, 8



OME-DB-16P 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.

To Order	
Model No.	Description
OME-PCI-1602/8K	100 KS/s 32-channel 16-bit A/D board
OME-PCI-1602F/8K	200 KS/s 32 channel 16-bit A/D board
OME-DB-1825/1	Screw terminal board for analog input channels with 1 m (3.3') 37-pin D-Sub cable
OME-DB-1825/2	Screw terminal board for analog input channels with 2 m (6.6') 37-pin D-Sub cable
OME-DB-8025	Screw terminal board for for digital I/O, includes two 1 m (3.3') cables
OME-DB-16P	16-channel isolated digital input board, includes 1 m (3.3') cable
OME-DB-16R	16-channel SPDT relay board, includes 1 m (3.3') cable
OME-ADP-20/PCI	20-pin extender (extends the dual 20-pin digital I/O flat cable connectors on the board to the PC slot window, includes two 20-pin cables)
OME-DN-20	20-pin DIN rail mount I/O connector board (two 20-pin headers) for digital I/O, includes two 1 m (3.3') cables
OME-DN-37	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 (3.3') cable

OME-PCI-1602 and OME-PCI-1602F come complete with operator's manual on CD ROM, and software development kit.

Ordering Example: OME-PCI-1602/8K 100 KS/s 32-channel data acquisition board, OME-DB-1825/1 screw terminal board and OCW-1, OMEGACARESM 1 year extended warranty for OME-PCI-1602/8K (adds 1 year to standard 1 year warranty).