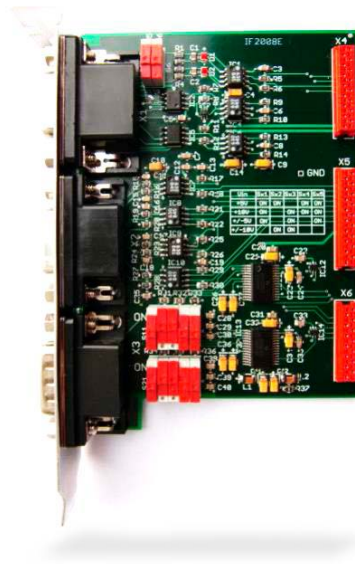


## IF2008E Expansion Board

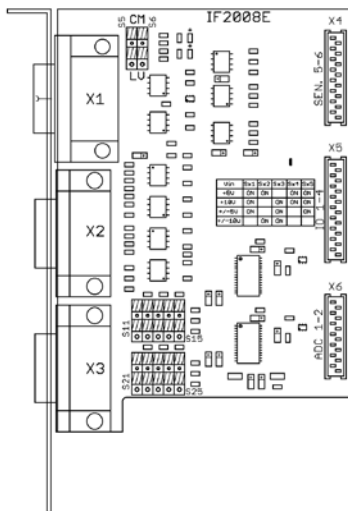
The IF2008E expansion board is designed for installation in PCs and enables the synchronous capture of two digital sensor signals, two analog sensor signals and eight I/O-Signals. The card is used as expansion board for the IF2008PCIe. The absolutely synchronous data acquisition is a special feature which plays an important role when evaluating several sensors.

### Special advantages

- 4x digital signals and 2x encoders with basic printed circuit board
- 6x digital signals, 2x encoders, 2x analog signals and 8x I/O signals together with IF2008E
- FIFO data memory
- Synchronous data acquisition



### IF2008E Expansion board



### Mechanics and environment

- Dimensions (PCB) approx. 71 x 102 mm, width: 1 slot
- Max. permitted ambient temperature +40 °C
- 1x D-SUB female connector HD 15-pin for sensor connections
- 1x D-SUB female connector 9-pin for IO interface
- 1x D-SUB male connector 9-pin for analog inputs
- 3x MicroMatch female connectors for connection to basic printed circuit board

### IO interface (X2)

- 4x optocoupler inputs, input current max. 5 mA, input frequency max. 1 MHz
- 4x optocoupler outputs, output current max. 20 mA, output frequency max. 1 MHz

### Analog interface (X3)

- 2x ADC channels
- Input voltage range 0 - 5 V, 0 - 10 V,  $\pm 5$  V,  $\pm 10$  V, separately adjustable for each channel via DIP switch
- Resolution 16 bits
- Offset error max.  $\pm 3$  mV
- Gain error max.  $\pm 5$  mV
- Conversion rate max. 150 kHz per channel

### IF2008E supports the following sensors and measuring systems

- |               |                            |
|---------------|----------------------------|
| optoNCDT 1420 | optoNCDT ILR 118x/ILR 1191 |
| optoNCDT 1750 | optoCONTROL 2500           |
| optoNCDT 1710 | optoCONTROL 2520           |
| optoNCDT 2300 | optoCONTROL 2600           |
| optoNCDT 2310 |                            |