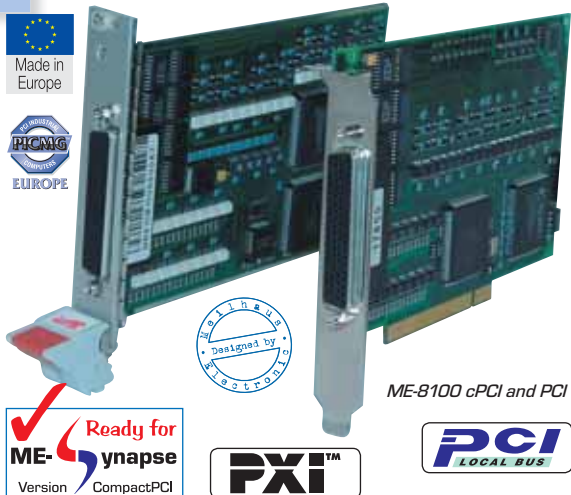


Reliable, opto-isolated digital and counter board

ME-8100



Do you have to switch, control and acquire digital statuses in harsh industrial environments? Then you will love the opto-isolation of this board series. Depending on the model you can use 16 or 32 inputs and outputs, as well as 3 isolated counters. All outputs are stable during PC power on/off. Moreover the boards offer some extras which are very special for that price segment...

- ME-8100A: 16 opto inputs and 16 opto outputs. ME-8100B: 32 opto inputs and 32 opto outputs.
- 24 V level. Isolation up to 1 kV. **Outputs source/sink software-selectable.**
- **3x 16 bit counter.** All lines opto-isolated and wired to the D-sub.
- Can be used for monitoring of status changes, with interrupt.
- Bitpattern comparator, 1x or 2x 16 bit. Interrupt on comparison positive.
- As StandardPCI or 3 U PXI/CompactPCI version: PCI Local Bus 2.1 compatible. Plug'n'Play.



» Models and functions ME-8100 series

Model	Opto-Digi.-Inp.	Opto-Digi.-Outp.	Counters	Extras	Connector	Bus
ME-8100A PCI	16	16	3x 16 bit. All lines wired to the D-sub. Opto-isolated	All lines 24 V level, opto-isolated up to 1 kV. Source/sink software selectable. Outputs stable during PC power on/off. Interrupt: Monitoring of status changes, 16 bit bitpattern comparator	78-pin D-sub female	PCI
ME-8100A cPCI						CompactPCI/PXI
ME-8100B PCI	32	32				PCI
ME-8100B cPCI						CompactPCI/PXI

Included: Board, ME-Power-CD, 78-pin counter connector.

Save money with ME bundles:

Select a combination of an ME board and accessory! For example:

ME-SK ME-8100 _ _ _ _	StarterKit with: ME-8100x of your choice + cable of your choice + terminal block of your choice.
ME-PP ME-8100 _ _ _ _	PowerPack with: ME-8100x of your choice + cable of your choice + terminal block of your choice + graphic software development environment VEE Pro, current full version.

» For the ME-8100 we recommend the following accessory...

Terminal block with pluggable terminals:

ME AK-D78/x	x = 0.25 m, 1 m or 2 m cable. 78-pin D-sub male to female, 1:1 contacted. Standard cable.
ME AB-D78M/S	Deluxe terminal block. 78-pin D-sub male to pluggable spring terminals as well as 25-pin D-sub male to spring terminals. In a robust metal box or in a DIN rail mountable card carrier (-H).
ME AB-D78M/S-H	

Alternative, with non-pluggable terminals:

ME AK-D78/x	x = 0.25 m, 1 m or 2 m cable. 78-pin D-sub male to female, 1:1 contacted. Standard cable.
ME AB-D78M	Standard terminal block. 78-pin D-sub male to spring terminals. In a DIN rail mountable card carrier.

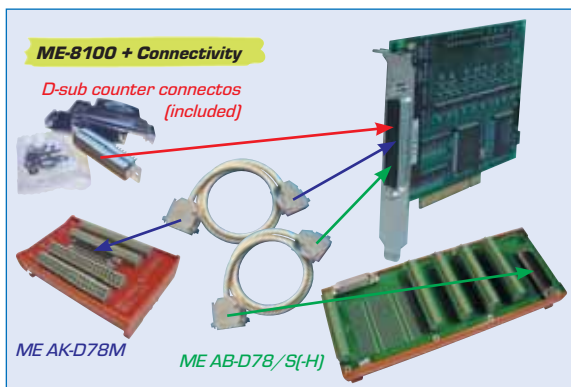
Further accessory:

ME AB-D78M/P-H	Deluxe terminal block. 78-pin D-sub male to IDC and prototyping area, for user signal conditioning. In a DIN rail mountable card carrier (-H).
ME-Synapse ME-1	"Docking station", converts the cPCI versions of the ME-FoXX ME-46xx to USB 2.0 or TCP/IP Ethernet/LAN.



Software included on CD:

- ME-iDS and ME-iDC driver and configuration tool for **Windows XP, 2000 and GNU Linux 2.6.**
- **Visual C/C++, VEE Pro** (Windows), **LabVIEW** (Windows, Linux), **Python, Java** supported.
- Program examples, **MEsslabor (DAQ lab)** software for Windows.
- "Soft" manuals English/German, f. Acrobat Reader/PDF.



Specifications

	ME-8100A	ME-8100B
Opto inputs	16	32
Number, specs	Switching frequency max. 6 kHz. Isolation up to 1 kV. Level typ. 24 V	
Operating modes	Simple read. Bitpattern comparison: Programmable, 1x (model A) or 2x (model B) 16 bit wide; interrupt on comparison positive. Bit change: A bit set in the mask register will generate an interrupt, whenever the corresponding input changes its status. If more than one bit is set in the mask register, an interrupt will be generated, if at least one of the related inputs changes its status	
Opto outputs	16	32
Number, specs	Switching frequency max. 6 kHz. Isolation up to 1 kV. Level typ. 24 V (depending on external supply)	
Drivers	Each port software-selectable as source or sink driver	
Current	Depending on number of outputs used per chip 250...500 mA	
Counters	ME-8100A	ME-8100B
Number, type	3 independent 16 bit (82C54). All pins opto-isolated up to 1 kV. Level typ. 24 V (depending on external supply)	
Counter clock	External, up to max. 1 MHz	
General data	ME-8100A	ME-8100B
Bus interface	32 bit StandardPCI bus or PXI/CompactPCI bus. PCI Local Bus 2.1 compatible	
Size (mm)	PCI: ~ 174 x 98; PXI/CompactPCI: 160 x 100 (3 U Europa card)	
Connectivity	78-pin D-sub female (opto inputs/outputs, counters)	