

Reliable opto-isolated digital and counter channels

ME-8100



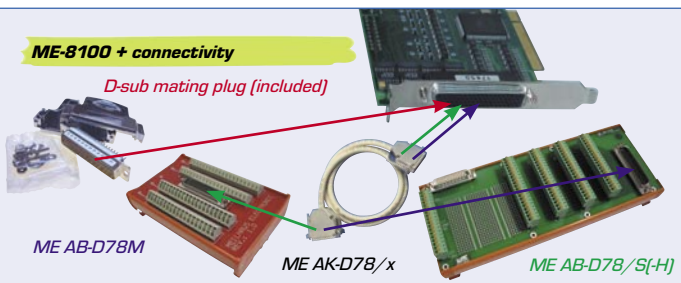
--- Software included on CD: ---

- ME-IDS and ME-IDC driver and configuration tool for **Windows XP, 2000, Vista and GNU Linux 2.6.**
- Supports **Visual C/C++**, **Visual Basic**, **VEE Pro** (Windows), **LabVIEW** (Windows, Linux), **Python**.
- Programming examples.

"Soft manuals" English and German for Acrobat Reader/PDF.

--- Specifications ---

Opto inputs	ME-8100A	ME-8100B
Number, specs	16	32
Operating modes	Switching frequency max. 6 kHz. Isolation up to 1 kV. Level typ. 24 V	
	Simple read. Bit pattern comparator: Programmable, 1x (model A) or 2x (model B) 16 bit wide; interrupt on comparison positive. Bit change: A bit set in the mask register generates an interrupt, when the corresponding input changes it's status. If several bits are set in the mask register: Interrupt, if at least on input changes it's status.	
Opto outputs	ME-8100A	ME-8100B
Number, specs	16	32
Drivers	Switching frequency max. 6 kHz. Isolation up to 1 kV. Level typ. 24 V (depending on ext. supply)	
Current	Source/sink driver software selectable per port Depending on number of outputs in use per chip 250...500 mA	
Counter	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 ext. supply). Counter clock: Ext. up to max. 1 MHz	
General	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 Europacard format)	
Connectors	78-pin D-sub female	



Do you have to switch, control and acquire digital statuses in harsh industrial environments? Then you will like 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...

- 16 or 32 opto inputs and 16 or 32 opto outputs.
- 24 V level. Isolation up to 1 kV.
- Source/sink of outputs software selectable.
- 3x 16 bit counters. All lines opto-isolated and wired to the connector.
- Interrupt control: Use to monitor changes in status. Bit pattern comparator, 1x or 2x 16 bit wide (interrupt on comparison positive).
- Plug'n'Play. Available for the bus platforms **StandardPCI** and **PXI/CompactPCI** (PCI Local Bus 2.1 compatible) and with ME-Synapse: **Ethernet/LAN, USB**.



Ready for ME-Synapse, that means: You can use the CompactPCI versions of the ME-8100 with the **ME-Synapse LAN in your ethernet** or with the **ME-Synapse USB at the USB!** For more information see the ME-Synapse.

--- Ordering codes and features ME-8100 series

Model	Opto digital Inp.	Opto digital Outp.	16 bit counters	Bus
ME-8100A PCI	16	16	3, opto-isolated	PCI
ME-8100A cPCI				CompactPCI/PXI
ME-8100B PCI	32	32	3, opto-isolated	PCI
ME-8100B cPCI				CompactPCI/PXI
Scope of delivery:	Boarde, ME-Power-CD, 78-pin mating plug.			
Attractive bundles:	Buy the ME board of your choice bundled with accessory of your choice and save money! For example:			
ME-SK ME-8100 _ _ _ _	StartKit 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 in current full version.			

--- Recommended accessory for the ME-8100... ---

Terminal block with pluggable spring terminals:	
ME AK-D78/x	x = 0.6 m, 1 m or 2 m standard cable . 78-pin D-sub male to female, 1:1 contacted.
ME AB-D78M/S ME AB-D78M/S-H	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 AK-D78/HQ-OE/1	In cases you don't want to use a terminal block: 1 m high quality cable . 78-pin D-sub male and open ends.
Alternative with non-pluggable terminals:	
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 array. In a DIN rail mountable card carrier (-H).
ME-Synapse LAN, USB	Adaptor from 3 U ME CompactPCI to USB or Ethernet/LAN.
ME-Neuron	Pre-configured, 3 U CompactPCI-based complete DAQ and control system.