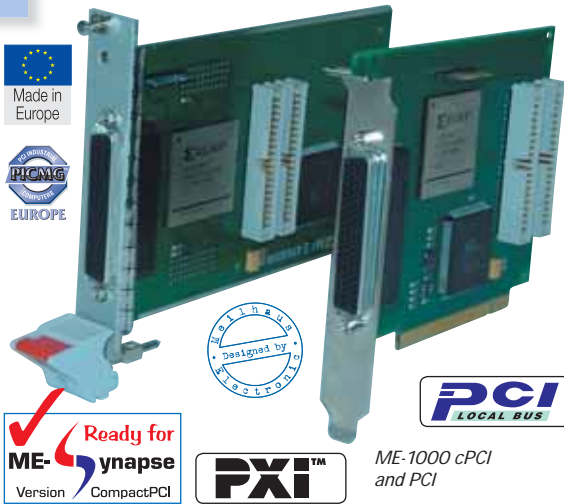


Multi-channel digital interface - up to 128 channels

ME-1000



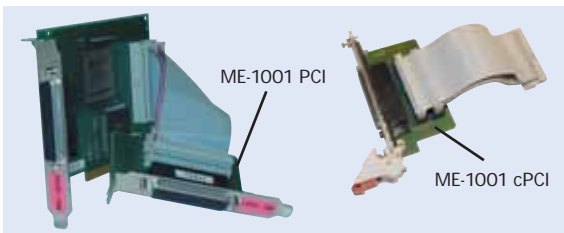
This board is a good choice, if you need a multitude of channels for industrial switching and/or the acquisition of digital statuses: It has up to 64 or 128 digital I/O lines, grouped in 32 bit ports. Each port can be programmed as input or output. You can add opto-isolation or relays for all channels, using optional external DIN rail modules!

- ME-1000/64: 64 TTL digital I/O channels (2x 32 bit ports).
- ME-1000/128: 128 TTL digital I/O channels (4x 32 bit ports).
- Each port programmable as input/output. Port configured as **output** with **readback** function.
- ME-1000/128 = ME-1000/64 + extender ME-1001 (with PCI or PXI/CompactPCI slot bracket, additional D-sub female, flat ribbon cables).
- All lines with standard TTL level. Expandable with external, DIN rail mountable board series ME-63Xtend with **relays** or **opto-isolation**: Control up to 128 relay. Up to 128 opto-inputs or opto-outputs.
- PCI Local Bus 2.1 compatible. Plug'n'Play. As StandardPCI or 3 U PXI/CompactPCI version.



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 Englisch/German, f. Acrobat Reader/PDF.



» Ordering codes and functions

ME-1000

Model	TTL Digital inputs/outputs	Bus	Included
ME-1000/64 PCI	64 (2x 32 bit ports)	PCI	Board, ME-Power-CD, 1x (ME-1000/64) or 2x (ME-1000/128) 78-pin counter connector
ME-1000/128 PCI (= ME-1000/64 PCI + ME-1001 PCI)	128 (4x 32 bit ports)	PCI	
ME-1000/64 cPCI	64 (2x 32 bit ports)	PXI/CompactPCI	
ME-1000/128 cPCI (= ME-1000/64 cPCI + ME-1001 cPCI)	126 (4x 32 bit ports)	PXI/CompactPCI	

Save money with ME bundles:

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

ME-SK ME-1000/____	<b>StarterKit</b> with: ME-1000/x of your choice + cable of your choice + terminal block of your choice.
ME-PP ME-1000/____	<b>PowerPack</b> with: ME-1000/x of your choice + cable of your choice + terminal block of your choice + graphic software development environment VEE Pro, current full version.

» For the ME-1000 we recommend the following accessory...

<b>Terminal block with pluggable terminals:</b>	
ME AK-D78/x	x = 0.25 m, 1 m or 2 m <b>cable</b> . 78-pin D-sub male to female, 1:1 contacted. Standard cable.
ME AB-D78M/S	<b>Deluxe terminal block</b> . 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	
<b>Alternative, with non-pluggable terminals:</b>	
ME AK-D78/x	x = 0.25 m, 1 m or 2 m <b>cable</b> . 78-pin D-sub male to female, 1:1 contacted. Standard cable.
ME AB-D78M	<b>Standard terminal block</b> . 78-pin D-sub male to spring terminals. In a DIN rail mountable card carrier.
<b>Expand the digital ports:</b>	
ME AK-D78/1000	1 m <b>cable</b> . 78-pin D-sub male to 2x 78-pin D-sub female. Connects ME-1000 or ME-1001 with 2x ME-63Xtend
ME AK-D2578/1000	0,5 <b>cable</b> . 25-pin D-sub male to 78-pin d-sub female. Connects ME-63Xtend at ME-1000 or ME-1001 with <b>one</b> further ME-63Xtend
ME-63Xtend Serie	<b>External expansion board</b> , DIN rail mountable, available with relays or opto-isolation. 16 channels. Use ME-631, ME-632, ME-633, ME-635 in a correct combination (note the 32 bit wide ports!).
<b>Further accessory:</b>	
ME AB-D78M/P-H	<b>Deluxe terminal block</b> . 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.

Specifications

Digital I/O	ME-1000/64	ME-1000/128
Number, type	64 TTL I/O channels (2x 32 bit ports)	128 TTL I/O channels (4x 32 bit ports)
Voltage	Each port programmable as input or output; outputs with readback	
	Input low: 0 V...+0.8 V (I <sub>ILmax</sub> =±10 µA); Output low: 0...+0.8 V (I <sub>OL</sub> =20 mA);	Input high: +2.0 V...+5.5 V (I <sub>IHmax</sub> =±10 µA); Output high: Min. 2.4 V (I <sub>OH</sub> =-4 mA)
<b>General data</b>		
Bus interface	32 bit StandardPCI bus or PXI-/CompactPCI bus. PCI Local Bus 2.1 compatible	
Size (mm)	PCI: ~136 x 107; PXI/CompactPCI: 160 x 100 (3 U Europa card)	
Connectors	78-pin D-sub female connector	
	2x 40-pin additional pinfield/IDC on board; expansion board ME-1001 with PCI slot bracket, additional 78-pin D-sub female connector and 2x flat ribbon cable	
<b>Expandability (see accessory)</b>		
Digital I/O ports	Relays or opto-isolation with ME-63Xtend (except version ME-634). Note: ME-63Xtend modules can NOT be connected to ME-1000 with 1:1 cable ME AK-D78! The special cable ME AK-D78/1000 has to be used! Also note the 32 bit wide ports of the ME-1000 when selecting and mixing ME-63Xtend boards: A whole 32 bit port is input or output.	

