Solid, versatile 12 bit standard analog output board — ME-1600

Versatile analog output board at a reasonable price: This solid standard D/A board gives you up to 16 voltage outputs with 12 bit resolution. On the model "UI" you can also use 8 of the lines for current output, if required. The current ranges are 0...20 mA and 4...20 mA.

- 4, 8, 12, 16 **voltage outputs** or 8, 16 voltage outputs, 8 of them can also be used as **current outputs**: Control actuators with current and voltage from one board.
- Ranges software selectable: Voltage 0...10 V, ±10 V; current 0...20 mA or 4...20 mA. Current outputs short circuit proof an readjusting.
- 12 bit D/A conversion. Transparent or simultaneous per quad converter.
- 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-1600 with the **ME-Synapse LAN in your ethernet** or with the **ME-Synapse USB at the USB!** For more information see the ME-Synapse.

- - - 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.

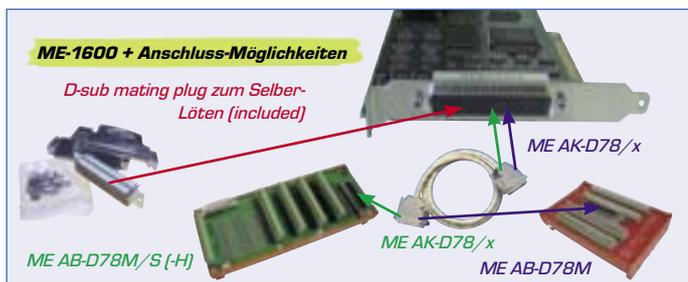### - - - Ordering codes and features   ME-1600 - - -

Model		Channels	Bus
ME-1600/4U PCI	4	Voltage outputs	PCI
ME-1600/8U PCI	8	Voltage outputs	
ME-1600/12U PCI	12	Voltage outputs	
ME-1600/16U PCI	16	Voltage outputs	
ME-1600/8U8I PCI	8	Voltage outputs,	
ME-1600/16U8I PCI	16	8 of them also current	
ME-1600/4U cPCI	4	Voltage outputs	PXI/ CompactPCI
ME-1600/8U cPCI	8	Voltage outputs	
ME-1600/12U cPCI	12	Voltage outputs	
ME-1600/16U cPCI	16	Voltage outputs	
ME-1600/8U8I cPCI	8	Voltage outputs,	
ME-1600/16U8I cPCI	16	8 of them also current	

Scope of delivery: Board, 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-1600/_ _	**StartKit with:** ME-1600/x of your choice + cable of your choice + terminal block of your choice
ME-PP ME-1600/_ _	**PowerPack with:** ME-1600/x of your choice + cable of your choice + terminal block of your choice + graphic software VEE Pro current full version.

ME-1600 + Anschluss-Möglichkeiten

D-sub mating plug zum Selber-Löten (included)

ME AK-D78/x

ME AB-D78M/S (-H)

ME AK-D78/x

ME AB-D78M

- - - Recommended accessory for the ME-1600... - - -

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	**Deluxe terminal block**. 78-pin D-sub male to pluggable spring terminals as well as 25-pin D-sub male to spring
ME AB-D78M/S-H	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 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	**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 for user signal conditioning. In a DIN rail mountable card carrier (-H).
ME-Synapse LAN and 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.

- - - Specifications - - -

Analoge output	ME-1600/xxU	ME-1600/8U8I, 16U8I
Number	4, 8, 12, 16 voltage outputs	8, 16 voltage outputs, 8 of them also as current outputs
D/A converter	12 bit; 1...4 converter(s) with 4 channels each; settling time max. 10 µs (-10 V to +10 V)	
Output ranges	0...10 V or ±10 V. Output current: ±2 mA per channel	Voltage outputs: 0...10 V or ±10 V. Output current: ±2 mA per channel Current outputs: 0...20 mA or 4...20 mA per channel selectable; short circuit proof an readjusting; circuitry for current outputs in parallel with voltage outputs, so voltage and current outputs can operate simultaneously
General	ME-1600/xxU	ME-1600/16U8I
Bus interface	32 bit/33 MHz 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)	
Connectors	78-pin D-sub female	