Solid, versatile 12 bit standard analog output board

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 on 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.

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

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### Recommended accessory for the ME-1600...
- **Terminal block with pluggable spring terminals:**
  - ME AKD78/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/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 AKD78/HQOE/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 AKD78/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.

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### Specifications

<table>
<thead>
<tr>
<th>Analog output</th>
<th>ME-1600/xxU</th>
<th>ME-1600/8U8I, 16U8I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>4, 8, 12, 16 voltage outputs</td>
<td>8, 16 voltage outputs, 8 of them also as current outputs</td>
</tr>
<tr>
<td>D/A converter</td>
<td>12 bit; 1...4 converter(s) with 4 channels each; settling time max. 10 µs (10 V to +10 V)</td>
<td></td>
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<tr>
<td>Output ranges</td>
<td>0...10 V or ±10 V</td>
<td>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 on readjusting; circuitry for current outputs in parallel with voltage outputs, so voltage and current outputs can operate simultaneously</td>
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<table>
<thead>
<tr>
<th>General</th>
<th>ME-1600/xxU</th>
<th>ME-1600/8U8I</th>
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</thead>
<tbody>
<tr>
<td>Bus interface</td>
<td>StandardPCI bus or PXI/CompactPCI bus, PCI Local Bus 2.1 compatible</td>
<td></td>
</tr>
<tr>
<td>Size (mm)</td>
<td>32 bit/33 MHz StandardPCI bus or PXI/CompactPCI bus, PCI Local Bus 2.1 compatible</td>
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<tr>
<td>Connectors</td>
<td>78-pin D-sub female</td>
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