All-in-one digital I/O board for PCIe, PCI, PXI/CompactPCI, USB ME-630 and MEphisto Switch

This is the multi-channel all-round model among the digital boards. Switch high loads and control digital statuses with a single board or box! Up to 48 relays, digital and opto channels for USB, PCI or PXI/CompactPCI.

- 16 or 8 relays type C (change-over). For current up to 2 A/
- 30 V, short time/single relay up to 3.5 A.
- 8 TTL digital inputs (opto-isolated on versions “-O”). 16 TTL digital I/O channels, expandable with relays or opto-isolation.
- 8 opto-isolated inputs (24 level).
- 2 additional interrupt inputs (except MEphisto Switch).
- Plug’n’Play. Available for bus platforms StandardPCI and PXI/CompactPCI (PCI Local Bus 2.1 compatible), PCI-Express and with ME-Synapse: Ethernet/LAN, USB.
- USB version MEphisto Switch: USB 11 full-speed. Robust metal housing. External power supply.

Relays

<table>
<thead>
<tr>
<th>Model</th>
<th>Relays</th>
<th>24 V opto input</th>
<th>TTL digital input</th>
<th>TTL digital I/O</th>
<th>IRQ input</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME-630 PCIe</td>
<td>ME-630/8 (C) PCIe</td>
<td>8 type C</td>
<td>8 (16 on “-O”)</td>
<td>8 (none on “-O”)</td>
<td>16 (2 x 8 bit)</td>
</tr>
<tr>
<td>ME-630/16 (C) PCIe</td>
<td>16 type C</td>
<td>16 (16 on “-O”)</td>
<td>16 (8 on “-O”)</td>
<td>16 (2 x 8 bit)</td>
<td>2 (PCI-Express)</td>
</tr>
<tr>
<td>ME-630 PCI</td>
<td>ME-630/8 PCI</td>
<td>8 type C</td>
<td>8</td>
<td>16 (2 x 8 bit)</td>
<td>2 (PCI)</td>
</tr>
<tr>
<td>ME-630/16 PCI</td>
<td>16 type C</td>
<td>16</td>
<td>16 (2 x 8 bit)</td>
<td>2 (PCI)</td>
<td></td>
</tr>
<tr>
<td>ME-630 cPCI</td>
<td>ME-630/8 cPCI</td>
<td>8 type C</td>
<td>8</td>
<td>16 (2 x 8 bit)</td>
<td>2 (PKI/CompactPCI)</td>
</tr>
<tr>
<td>ME-630/16 cPCI</td>
<td>16 type C</td>
<td>16</td>
<td>16 (2 x 8 bit)</td>
<td>2 (PKI/CompactPCI)</td>
<td></td>
</tr>
<tr>
<td>ME-630 USB (MEphisto Switch)</td>
<td>ME-630/8 USB</td>
<td>8 type C</td>
<td>8</td>
<td>16 (2 x 8 bit)</td>
<td>2 (PKI/CompactPCI)</td>
</tr>
<tr>
<td>ME-630/16 USB</td>
<td>16 type C</td>
<td>16</td>
<td>16 (2 x 8 bit)</td>
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<td></td>
</tr>
</tbody>
</table>

Scope of delivery

- Attractive bundles: Buy the ME board of your choice bundled with accessory of your choice and save money! Example:
  - ME-SK ME-630/x: StartKit with ME-630/x of your choice + cable of your choice + terminal block of your choice
  - ME-PP ME-630/x: PowerPack with ME-630/x of your choice + cable of your choice + terminal block of your choice + graphic software development environment VEE Pro in current full version.

1) Versions “-O” with 16 opto inputs and opto IRQ available for PCI-Express only.
2) TTL level on the standard models, opto-isolated with same specifications as opto inputs on the models “-O” (ME-630/8-O PCIe and ME-630/16-O PCIe).
All-in-one digital I/O board for PCI, PXI/CompactPCI, USB

**ME-630 and MEphisto Switch**

**ME-630 connectors**
- 2 TTL interrupt inputs
- 8 or 16 relays
- 8 opto coupler inputs

**MEphisto Switch connectors**
- 16 TTL channels: 2x 8 bit ports, each port programmable as input/output.
- 8 or 16 relays
- 8 opto coupler inputs

**Recommended accessory for the ME-630 and MEphisto Switch...**

**For higher currents over 0.35 A per line:**
- **ME AK-D78/HQ/x**
  - 0.5 m, 1 m, 2 m high quality cable. 78-pin D-sub male to female, 1:1 contacted. Metal housing and 2 lines of cable. Line diameter 40x 0.25 mm². Current load max. 1.4 A per wire; for load on 20 wires: 2 A.
- **ME AK-D25/2**
  - 2 m standard cable. 25-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).

**MEphisto Switch + cable/terminal blocks**
- **ME AK-D78/HQ/1**
  - 1 m high quality cable. 25-pin D-sub male to female, 1:1 contacted. Metal housing.
- **ME AK-D25/1**
  - 1 m high quality cable. 25-pin D-sub male to female, 1:1 contacted. Metal housing. (included with board)
- **ME AB-D78M/S(-H)**
  - ME AB-D78M/S(-H)

**ME-630 + ME-UB or ME-63Xtend**
- **ME AK-D25F/S** (included with board)
  - 2x ME-UB series or ME AB-D15F
  - 2 x ME-UB series

**MEphisto Switch + ME-UB or ME-63Xtend**
- **ME AK-D2515/4000**
  - for 2x ME-UB
- **ME AK-D2578/4000**
  - for 1x ME-63Xtend

**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 u. 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.