

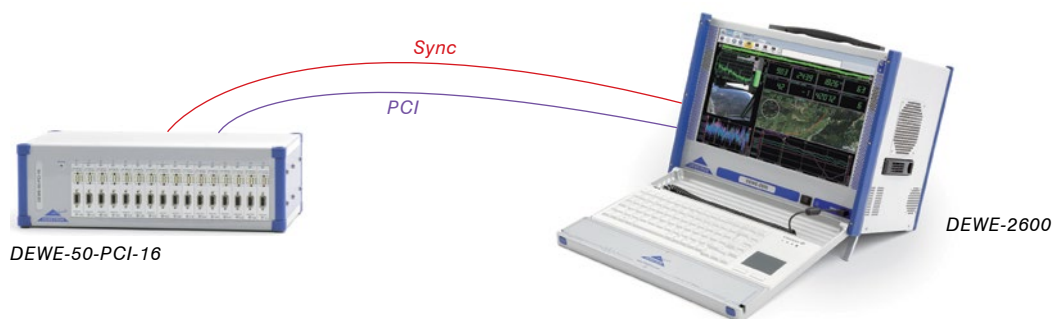
ECARD/PCI Series

- Connect to any host PC via Express card, PCI Express or PCI interface
- Eight different models for laptop or workstation computers
- Up to 64 isolated DAQP modules or up to 192 differential MDAQ inputs
- Fast data transfer up to 80 MB/s
- Cascading option for creating high channel count systems



DEWE-50-PCI with DEWETRON Instruments

Another popular use of DEWE-50-PCI units is to expand the channel count of DEWETRON instruments. The basic instrument needs to have ORION-SYNC option installed to ensure the synchronous sampling of all internal and external analog inputs. In this case the DEWE-50-PCI usually is attached to the instrument via a PCI host card.





Choose from eight models

Add your choice of signal conditioning, A/D board(s) and software to complete these systems

| | DEWE-50-PCI-16 | DEWE-50-PCI-32 | DEWE-50-PCI-64 |
|---|--|---|--|
| Slots for DAQ or PAD modules | 16 | 32 | 64 |
| MDAQ input channels | - | - | - |
| External quasi-static channel expansion | EPAD interface, up to 16 EPAD2 modules = 128 ch | | |
| Digital I/O, counter, CAN bus | Depending on selected ORION board(s) | | |
| Main system | | | |
| Internal PCI slots | 1 | 3 | 7 |
| Host PC interface | ExpressCard-54, optional PCI, PCI-Express or ExpressCard | | |
| Supported operating systems | Microsoft® WINDOWS® 7 | | |
| Power supply (max.) | 85 to 264 V _{AC} | 90 to 264 V _{AC} | 90 to 264 V _{AC} |
| Dimensions (W x D x H) | 435 x 245 x 133 mm (17.1 x 9.6 x 5.2 in.) | 435 x 300 x 223 mm (17.1 x 11.8 x 8.8 in.) | 435 x 300 x 444 mm (17.1 x 11.8 x 17.5 in.) |
| Weight | Typ. 6 kg (13 lbs) | Typ. 10 kg (22 lbs) | Typ. 15 kg (33 lbs) |
| Environmental specifications | | | |
| Operating temperature | 0 to +50 °C | | |
| Storage temperature | -20 to +70 °C | | |
| Humidity | 10 to 80 % non cond., 5 to 95 % rel. humidity | | |
| Vibration | EN 60068-2-6, EN 60721-3-2 Class 2M2 | | |
| Shock | EN 60068-2-27 | | |

| Options | | | |
|--|-------------------------|-------------------------|--------------------------|
| 50-HANDLE Carrying handle for DEWE-50 series | ✓ | ✓ | ✓ |
| 50-16-DC-UPS DC power supply 10 to 32 V with internal UPS battery ~3 min. and external AC adaptor | ✓ | - | - |
| 50-16-DC DC power supply 9 to 36 V | ✓ | - | - |
| DEWE-POW-24-350 External power supply for 50-xx-DC option, 95 to 260 V _{AC} Input, 24 V _{DC} output | ✓ | - | - |
| 50-DC-12V DC power supply 9 to 18 V, incl. external AC adaptor | - | ✓ | ✓ |
| 50-DC-24V DC power supply 18 to 36 V, incl. external AC adaptor | - | ✓ | ✓ |
| 50-PCI-CS Option cascading of several DEWE-50-PCI units, occupies 1 PCI slot inside the DEWE-50-PCI unit | - | ✓ | ✓ |
| 50-xx-MK 19" rack-mount-kit, | ✓ 50-16-MK, 3 U high | ✓ 50-32-MK, 5 U high | ✓ 50-64-MK, 10 U high |

Additional interfaces and sensors

Measurements are not limited to just classic analog and digital signals. Please find further detailed information to expand your system in the chapter "Components".

Needed to complete the system

DEWE-ORION "A/D Boards" offer simultaneous sampled analog inputs, synchronous digital I/Os, high-performance counters and high-speed CAN interfaces. DAQP- or MDAQ signal amplifiers and software are needed as well.

Options to expand the system

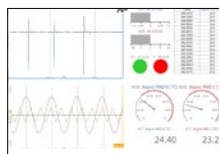
Add further "Interface Cards" like ARINC-429, 1553, PCM telemetry, FireWire and analog output or special "Sensors" like synchronized Video, industrial encoders (RIE-360) or GPS.



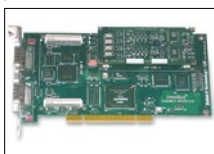
A/D card



DAQP/MDAQ



Software



ARINC



VIDEO



VGPS



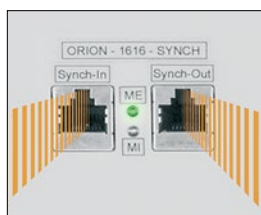
| DEWE-52-PCI-3216 | DEWE-51-PCI-16 | DEWE-51-PCI-64 | DEWE-51-PCI-128 | DEWE-51-PCI-192 |
|--|--|---|--|--|
| 16 | - | - | - | - |
| Up to 32 | Up to 16 | Up to 64 | Up to 128 | Up to 192 |
| EPAD interface, up to 16 EPAD2 modules = 128 ch | | | | |
| Depending on selected ORION board(s) | | | | |
| 3 | 1 | 7 | 13 | 13 |
| ExpressCard-54, optional PCI, PCI-Express or ExpressCard | | | | |
| Microsoft® WINDOWS® 7 | | | | |
| 90 to 264 V _{AC} | 10 to 36 V _{DC} ¹ incl. external AC adaptor | 90 to 264 V _{AC} | 90 to 264 V _{AC} | 90 to 264 V _{AC} |
| 435 x 300 x 223 mm (17.1 x 11.8 x 8.8 in.) | 282 x 230 x 88 mm (11.1 x 9.1 x 3.5 in.) | 435 x 300 x 177 mm (17.1 x 11.8 x 7.0 in.) | 435 x 300 x 267 mm (17.1 x 11.8 x 10.5 in.) | 435 x 300 x 444 mm (17.1 x 11.8 x 17.5 in.) |
| Typ. 9 kg (20 lbs) | Typ. 3 kg (6.6 lbs) | Typ. 6 kg (13 lbs) | Typ. 9 kg (20 lbs) | Typ. 12 kg (24 lbs) |
| 0 to +50 °C | | | | |
| -20 to +70 °C | | | | |
| 10 to 80 % non cond., 5 to 95 % rel. humidity | | | | |
| EN 60068-2-6, EN 60721-3-2 Class 2M2 | | | | |
| EN 60068-2-27 | | | | |

| | | | | |
|--------------------|---|--------------------|---------------------|----------------------|
| ✓ | - | ✓ | ✓ | ✓ |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| ✓ | - | ✓ | ✓ | ✓ |
| ✓ | - | ✓ | ✓ | ✓ |
| ✓ | - | ✓ | ✓ | ✓ |
| ✓ | - | ✓ | ✓ | ✓ |
| 50-32-MK, 5 U high | - | 51-64-MK, 4 U high | 51-128-MK, 6 U high | 51-192-MK, 10 U high |

DEWE2 Please find further solutions in chapter DEWE2



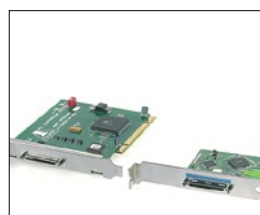
DEWE-50-DC option for DC Synchronization power supply



ORION - 1616 - SYNCH



19" rack mount kit



PCI- and PCI-Express cards to connect DEWE-5x-PCI



Express-cards to connect DEWE-5x-PC to Notebooks

MDAQ Configurations of DEWE-51-PCI Series

DEWE-51-PCI-16

The DEWE-51-PCI-16 is prepared for up to 16 MDAQ channels and any combination of MDAQ-SUB-x-BNC and MDAQ-SUB-x-D is supported



DEWE-51-PCI-16

DEWE-51-PCI-64

The DEWE-51-PCI-64 is prepared for up to 64 MDAQ channels and there are 2 versions, DEWE-51-PCI-64-A and DEWE-51-PCI-64-B.



DEWE-51-PCI-64



DEWE-51-PCI-64-A

DEWE-51-PCI-64-A has a modular front panel and accepts

- up to 8 MDAQ-SUB-x-BNC modules
- 1 MDAQ-SUB-x-D and up to 5 MDAQ-SUB-x-BNC modules
- 2 MDAQ-SUB-x-D and up to 4 MDAQ-SUB-x-BNC modules
- 3 MDAQ-SUB-x-D and 1 MDAQ-SUB-x-BNC module
- up to 4 MDAQ-SUB-x-D modules

| | | |
|--------------------|----------------|--------------------------|
| Max. channel count | ANALOG | 64 MDAQ channels |
| | DIGITAL | I/O card & counter & CAN |



DEWE-51-PCI-64-B

DEWE-51-PCI-64-B has a fixed front panel and is prepared for up to 8 MDAQ-SUB-x-D modules

| | | |
|--------------------|----------------|--------------------------|
| Max. channel count | ANALOG | 64 MDAQ channels |
| | DIGITAL | I/O card & counter & CAN |

DEWE-51-PCI-128

The following standard MDAQ configurations are supported:

| MDAQ modules with DSUB connectors | | MDAQ modules with BNC connectors | |
|-----------------------------------|----------|----------------------------------|----------|
| max. number of modules | channels | max. number of modules | channels |
| - | - | 8 | 128 |
| 1 | 16 | 6 | 96 |
| 2 | 32 | 5 | 80 |
| 3 | 48 | 4 | 64 |
| 4 | 64 | 2 | 32 |
| 5 | 80 | 1 | 16 |
| 6 | 96 | - | - |

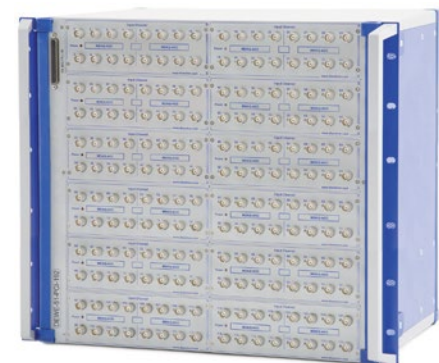


DEWE-51-PCI-128

DEWE-51-PCI-192

The following standard MDAQ configurations are supported:

| MDAQ modules with DSUB connectors | | MDAQ modules with BNC connectors | |
|-----------------------------------|----------|----------------------------------|----------|
| max. number of modules | channels | max. number of modules | channels |
| - | - | 12 | 192 |
| 1 | 16 | 10 | 160 |
| 2 | 32 | 9 | 144 |
| 3 | 48 | 8 | 128 |
| 4 | 64 | 6 | 96 |
| 5 | 80 | 5 | 80 |
| 6 | 96 | 4 | 64 |
| 7 | 112 | 2 | 32 |
| 8 | 128 | - | - |



DEWE-51-PCI-192