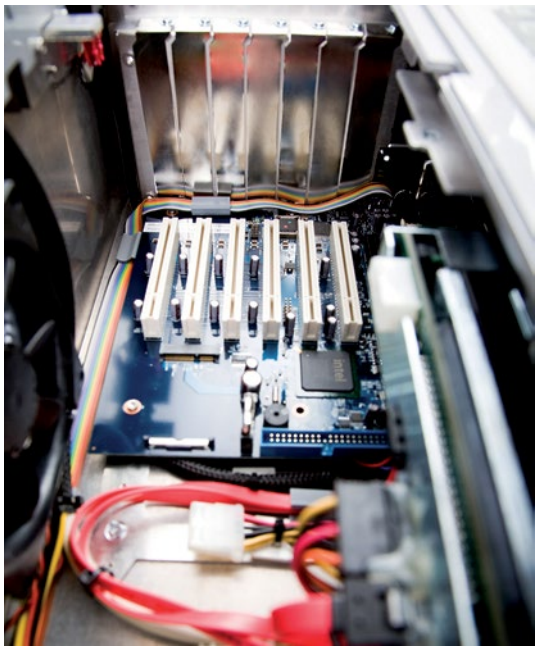
Industrial PCs

- *Run any Windows® software*
- *COTS / open architecture computer platform - easy to upgrade*
- *Removable HDD upgrades*
- *Standard 10/100/1000 Ethernet, USB 2.0, FireWire®*
- *100 % burn-in tested*



DEWETRON offers a wide range of industrial PCs reaching from benchtop or 19"-rackmount units for in-lab-use to ultra portable instruments for field-use. All DEWETRON IPCs offer PCI slots for adding customers cards, are equipped with the latest PC technology and a choice of power supplies is available.

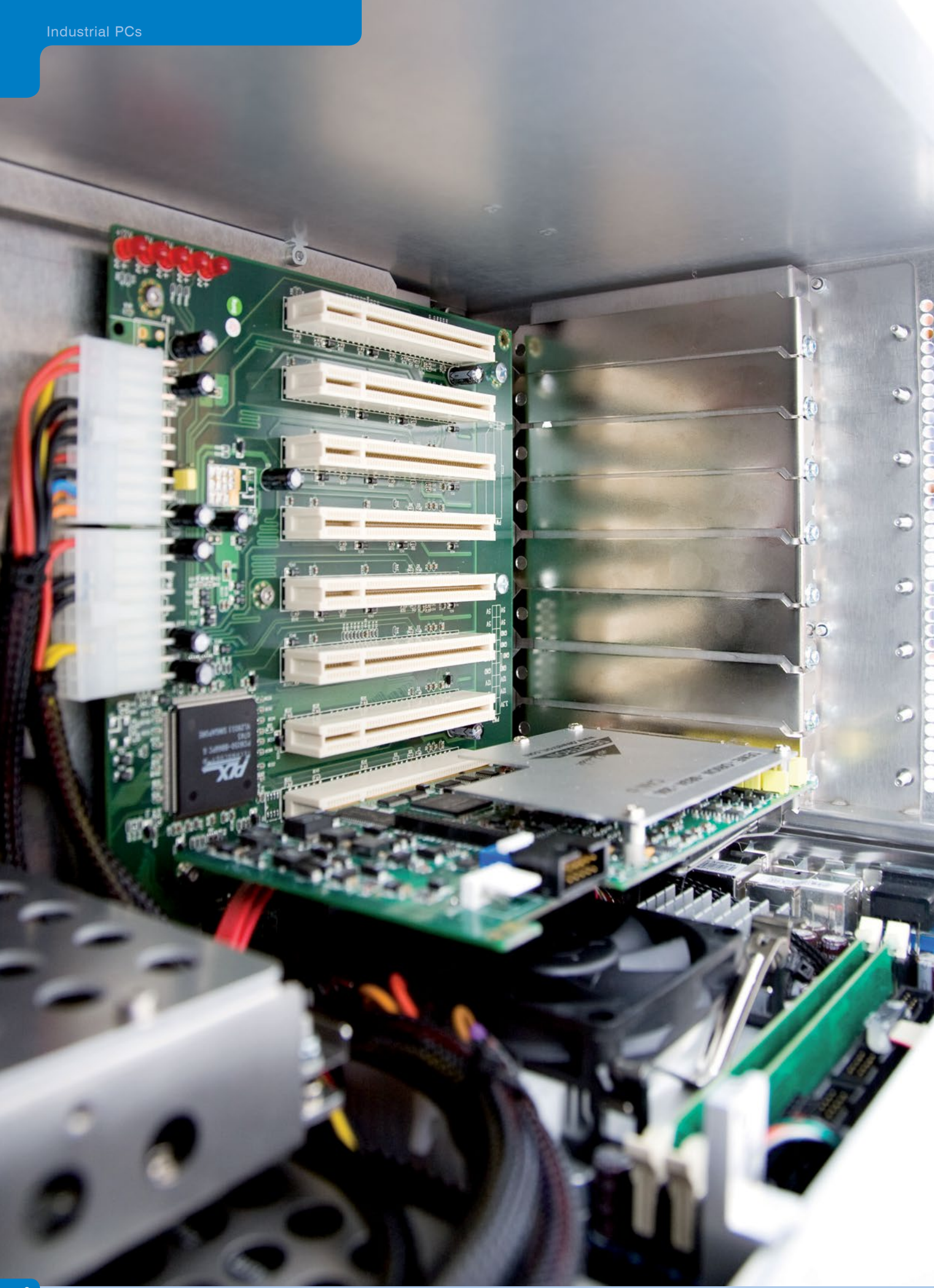
The open architecture platform allows easy installation of customers PCI cards and software. The rugged aluminum chassis is especially developed for use under harshest environments.

	DEWE-2608	DEWE-5008	DEWE-808	DEWE-818
Specifications				
Class	Portable	Benchtop	Benchtop 19" rack-mount	Benchtop 19" rack-mount
Slots	6 PCI (full length) 1 PCI (half length) 1 PCIe (half length)	5 PCI (full length) 1 PCI-Express 16x (full length)	5 PCI (full length) 1 PCI-Express 16x (full length)	5 PCI (full length) 1 PCI-Express 16x (full length) 1 PCI-Express 1x (full length)
Display	17" 1280 x 800	17" 1280 x 1024	-	-
Internal Power Supply Options				
AC	✓	✓	✓	✓
DC	Optional	Optional	Optional	Optional
Battery	Optional	Optional	-	-
Dimensions				
Size (W x H x T)	417 x 246 x 303 mm (16.4 x 9.7 x 11.9 in.)	460 x 351 x 192 mm (18.1 x 13.8 x 7.8 in.)	437 x 443 x 177 mm (17.2 x 17.4 x 7 in.)	437 x 304 x 177 mm (17.2 x 12 x 7 in.)
Weight	Typ. 11 kg (24.2 lb.)	Typ. 14 kg (30 lb.)	Typ. 10 kg (22 lb.)	Typ 9 kg (20 lb.)

Available PCI slots

DEWE-5008
5 x PCI
1 x PCI-Express 16x

DEWE-2608
6 slots full length and
1 slot half length



DEWE-2608

Industrial Portable PC

- *Latest PC technology*
- *Fully battery powered (optional)*
- *For the most demanding applications in aerospace and industrial computing*
- *Removable HDD, additional internal SSD system disk available*
- *Safe investment - easy to upgrade in future*

DEWE-2608 specifications	
Available slots	
Slots	6 full length, 32 bit PCI 1 half length, 32 bit PCI 1 half length PCIe 4x
Main system [1]	
CPU board	Mini-ITX
Processor	Intel® Core™ i5 / i7
RAM	4 GB
Hard disk	1 TB removable
Data throughput	Typ. 80 MB/s [2]
Storage drive	Internal DVD +/-RW burner
Power supply (max.)	90 to 264 V_{AC}
Display	15.4" TFT (1280 x 800)
Ethernet	2 x GBit LAN
USB interfaces	4 x USB 2
Firewire interface	1
RS-232 interface	1
Operating system	Microsoft® WINDOWS® 7
Dimensions (W x D x H)	417 x 246 x 303 mm (16.4 x 9.7 x 11.9 in.)
Weight	Typ. 11 kg (24 lb.)
Environmental specifications	
Operating temperature	0 to +50 °C, down to -20 °C with prewarmed unit
Storage temperature	-20 to +70 °C
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity
Vibration[3]	MIL-STD 810F 514.5, procedure I
Shock[3]	MIL-STD 810F 516.5, procedure I

[1] Please find current specifications in the latest price list
[2] Depends on the system configuration
[3] Tested with Solid State Disk

DEWE-2608 industrial PCs are unique platforms with a lot of advantages. The rugged aluminium chassis allows uses under harshest environments.

There is a brilliant 15" TFT display and you can install up to six full-size PCI cards into this unit. USB connectors, Ethernet and DVD +/-RW drives are standard on these systems. For classified work there is a removable HDD drive. An internal solid state disk for Windows operating system can be added additionally.

Removable hard disk

DEWE-2608 system options and upgrades	
Options	**Description**
DISP-15-TOUCH	Touchscreen for 15“ display
2600-FIREWIRE	PCI Express FireWire® interface for the DEWE-2608
2600-PS-BAT	Battery power supply with UPS function, 18 .. 24 V_{DC} non-isolated input, incl. external AC power supply DEWE-POW-24-350, 3 slots for hot-swappable batteries, 3 batteries for appr. 3 hours operation included, for DC operation always add DEWE-DCDC-24-300-ISO
DEWE-DCDC-24-300-ISO	External DC/DC converter with isolation, 9 to 36 V_{DC} input range, Lemo EGJ.3B.302, incl. 2 m cable to banana jacks, 24 V_{DC} output, 300 W, Lemo EGG.2B.302 socket
BAT-95-WH	Lithium-Ion battery, 14.4 V, 95Wh, max. 8A
BAT-CHARGER-1	Desktop battery charger for 1 battery, incl. external AC adaptor
BAT-CHARGER-4	Desktop battery charger for 4 batteries, incl. external AC adaptor
PS-BAT-REMOTE-ON	Special add-on for the battery power supply, one extra connection with a wake-up signal is needed to the power supply input of the unit, allows to automatically turn on the instrument when the ignition of the car is turned on, also turns off the instrument when the car is turned off
Upgrades	**Description**
HDD-1000-SSD-480	Upgrade to 480 GB flash disk (replaces 1 TB hard disk), max. data throughput 100 MB/s
HDD-REM-1000	Spare removable hard disk, 1 TB
2600-SYSTEM-SSD-120	Additional internal SSD 120 GB for Windows, the removable hard disk remains

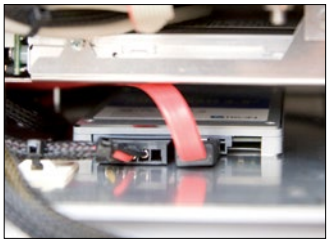
2600-PS-BAT
Optional battery power supply

This option turns your DEWE-2608 into a fully battery powered unit. The hot-swappable batteries guarantee continuous operation without an external power source. The instrument can be operated for up to 3 hours with 3 batteries (BAT-95WH) installed. Since this time depends a lot on the system configuration software tool shows the battery status. Operating temperature is limited to 0 .. 45° C when batteries are charged.

Available PCI slots

Available slots
8 available PCI slots in total

Rugged guides for full-size cards and a fixing bar hold all installed cards in place safely.



2600-SYSTEM-SSD-120
Additional internal Solid State Disk

DEWE-DCDC-24-300-ISO
Isolated DC power supply, needed to operate units with 2600-PS-BAT option from DC

DEWE-5008

Industrial Portable PC

- *Latest PC technology*
- *For the most demanding applications in aerospace and industrial computing*
- *Removable HDD upgrades available, up to 3 hard disks in total*
- *100 % burn-in tested*
- *Safe investment - easy to upgrade in future*

DEWE-5008 specifications	
Available slots	
PCI	5 full length, 32 bit
PCI Express	1 PCI Express 16x
Main system [1]	
CPU board	ATX
Processor	Intel® Core™ i5 / i7
RAM	3 GB
Hard disk	1000 GB
Data throughput	Typ. 70 MB/s [2]
Storage drive	Internal DVD +/-RW burner
Power supply (max.)	90 to 264 V_{AC}
Display	17.3“ full-HD TFT (1920 x 1080)
Ethernet	2x GBit LAN
USB interfaces	4x USB 2
FireWire interface	1
RS-232 interface	1
Operating system	Microsoft® WINDOWS® 7
Dimensions (W x D x H)	460 x 351 x 192 mm (18.1 x 13.8 x 7.7 in.)
Weight	Typ. 14 kg (30 lb.)
Environmental specifications	
Operating temperature	0 to +50 °C, down to -20 °C with prewarmed unit
Storage temperature	-20 to +70 °C
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity
Vibration[3]	MIL-STD 810F 514.5, procedure I
Shock[3]	MIL-STD 810F 516.5, procedure I

[1] Please find current specifications in the latest price list
[2] Depends on the system configuration
[3] Tested with Solid State Disk

DEWE-5008 industrial PCs are unique platforms with a lot of advantages. The rugged aluminium chassis allows uses under harshest environments.

There is a brilliant 17” full-HD TFT display and you can install up to five full-size PCI cards into this unit. USB connectors, Ethernet and DVD +/-RW drives are standard on these systems. For classified work you can add a removable HDD drive - or even two of it. The internal hard disk or solid state disk can stay additionally if required.

The systems are designed for both laboratory and field usage. High quality production of the systems is complemented by an attractive price.

Available slots:

There are 7 available slots in total.

In the standard configuration the unit offers five full length PCI 32 bit, one full length PCI Express 16x.

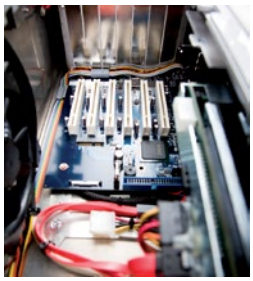
DEWE-5008 system options and upgrades	
Options	**Description**
FIREWIRE-1394	PCI FireWire IEEE-1394 interface for the DEWE-5000
5000-PS-BAT	Power supply 18 to 36 VDC (no internal battery), Lemo EGJ.3B.302 for DC input, incl. external AC adaptor
Upgrades	**Description**
HDD-1000-SSD-256	Upgrade to 256 GB flash disk (replaces 1000 GB hard disk), max. data throughput 40 MB/s
Removable drive bay options	
BAY-5.25-SATA-SLIM	5.25“ SATA removable drive bay, low profile version 28.7 mm / 1.13 in., no hard disk included, up to two of these drive bays can be installed into one unit
HDD-3.5-SATA-1000	1000 GB SATA harddisk 3.5“, for installation into a 5.25“ removable drive bay
BAY-3.5-SATA	3.5“ SATA removable drive bay, no hard disk included, max. one drive bay per unit
SSD-2.5-480	480 GB SATA solid state disk, for installation into a removable drive bay
HDD-SATA-1000	1000 GB SATA hard disk 2.5“, for installation into a 3.5“ removable drive bay
HDD-INT-MINUS	Remove the internal fixed hard disk

5000-PS-BAT
Optional battery power supply

The DEWE-5000-PS-BAT option turns your DEWE-5000 into a fully battery powered instrument. Three hot-swappable batteries guarantee continuous operation without an external power source for up to 2 hours. Since this time depends a lot on the system configuration, a DEWESoft plugin shows the battery status directly in the software.

One or even two 3.5“ removable hard disks can be installed into a DEWE-5008. In this case two PCI 32 bit slots and the PCI Express 16x slot are limited to half length. Still three PCI 32 bit slots remain full length.

As the DEWE-5008 is designed for field use, special care is taken in fixing the cards. Rugged guides for full-size cards and a fixing bar hold all installed cards in place safely.

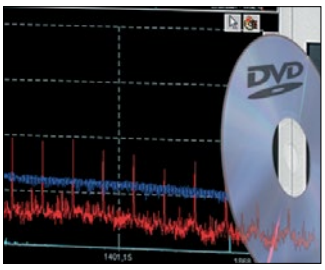


The DEWE-5008 industrial computer even offers a removable panel on the right side for maximum OEM customization. It is quite popular to mount connectors like Lemo, SUB-D or Binder sockets here to e.g. have more rugged connectors like on the cards or provide power supply to some peripherals.

*Option **BAT-CHARGER-1** and **BAT-CHARGER-4***

Option 5000-DC-12V
Internal 9 .. 18 V_{DC} power supply including external AC adaptor.

The carrying bag is included as standard accessory



DVD-BURNER
for data backup to DVD or CD

DEWE-808/DEWE-818

Industrial Portable PC

- *Reliable PC technology*
- *Open architecture computer platform*
- *Removable HDD upgrades available*
- *100 % burn-in tested*
- *Safe investment - easy to upgrade in future*

DEWE-8x8 specifications		
Available slots	**DEWE-808**	**DEWE-818**
PCI	4 full length, 32 bit	4 half length, 32 bit
PCI Express	3 PCI Express	3 PCI Express
Main system [1]		
CPU board	ATX	
Processor	Intel® Core™ i5	
RAM	4 GB	
Hard disk	1000 GB	
Data throughput	Typ. 70 MB/s [2]	
Storage drive	Internal DVD +/-RW burner	
Power supply (max.)	90 to 264 V_{AC}	
Display	-	
Ethernet	2x GBit LAN	
USB interfaces	4x USB 2	
FireWire® interface	1	
RS-232 interface	1	
Operating system	Microsoft® WINDOWS® 7	
Dimensions (W x D x H)	437 x 443 x 177 mm (17.2 x 17.4 x 7 in.)	437 x 304 x 177 mm (17.2 x 12 x 7 in.)
Weight	Typ. 10 kg (22 lb.)	Typ. 9 kg (20 lb.)
Environmental specifications		
Operating temperature	0 to +50 °C, down to -20 °C with prewarmed unit	
Storage temperature	-20 to +70 °C	
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity	
Vibration[3]	EN 60068-2-6, EN 60721-3-2 class 2M2	
Shock[3]	EN 60068-2-27	

[1] Please find current specifications in the latest price list
[2] Depends on the system configuration
[3] Tested with Solid State Disk

The DEWE-808 is our benchtop or rack-mounting industrial PC, made the "DEWETRON way" - all metal construction, and built to demanding shock and vibration standards. The DEWE-808 model is a normal depth, and therefore accepts full length PCI cards, while the DEWE-818 is shorter in the rack, and therefore accepts only half size and smaller PCI cards

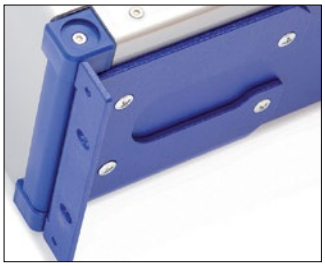
The systems are designed for both laboratory and rack-mount usage. High quality production of the systems is complemented by an attractive price.

System options and upgrades for DEWE-800 series	
Options	
800-MK	19“ mounting kit for the DEWE-800 series, 4U
FIREWIRE-1394	PCI FireWire® IEEE-1394 interface for the DEWE-800 series
800-DC-12V	Power supply 9 to 18 V_{DC} (no internal battery), max. output 300 W, Lemo EGJ.3B.302 for DC input, incl. external AC adaptor
800-DC-24V	Power supply 18 to 36 V_{DC} (no internal battery), max. output 300 W, Lemo EGJ.2B.302 for DC input, incl. external AC adaptor
Upgrades	
HDD-1000-SSD-480	Upgrade to 480 GB flash disk (replaces 1000 GB hard disk), max. data throughput 100 MB/s
Additional upgrades - for DEWE-808 only!	
800-CPU-UP-I7	Upgrade of PC for DEWE-800 series consisting of mainboard with 4 PCI slots Intel® Core™ i7 processor 2.8 GHz and 4 GB RAM
BAY-5.25-SATA	5.25“ SATA removable drive bay, standard height 43.2 mm / 1.70 in., no hard disk included, max. one drive bay per unit
HDD-3.5-SATA-1000	1000 GB SATA hard disk 3.5“, for installation into a 5.25“ removable drive bay
HDD-INT-MINUS	Remove the internal fixed hard disk

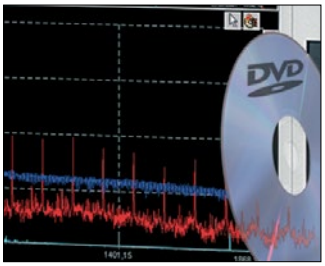
The DEWE-808 accepts an optional 3.5“ removable hard disk, which is typically needed for classified work.

Another popular configuration is to keep the internal hard drive and add a removable extra drive for data storage.

Option 800-DC-12V
Internal 9 .. 18 V_{DC} power supply including external AC adaptor.



800-MK
19” mounting kit



DVD-BURNER
for data backup to DVD or CD

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