DEWE-211

- *Smallest 16 channel instrument*
- *Wide range DC input and optional battery pack*
- *16 differential MDAQ analog inputs*
- *Solid state disk for extreme ruggedness*
- *LAN and WLAN interface*

DEWE-211	
Input specifications	
MDAQ input channels	16
Expansion connector for additional 16 channels	Optional, if DEWE-ORION-32xx card is installed
Main system [1]	
Total PCI slots	1 half length
Hard disk	120 GB SSD
Data throughput	Typ. 90 MB/s[2]
Power supply (max.)	8 to 30 V_{DC}, external AC power supply adapter included
Display	No integrated display, external MOP-DISP-12-A recommended
Processor	Intel® Core™ i5
RAM	4 GB
Ethernet	2x 10/100/1000 BaseT
Wireless LAN	1 antenna, 802.11n standard
USB interfaces	4
FireWire® interface	1
Operating system	Microsoft® WINDOWS® 7
Dimensions (W x D x H)	317 x 252 x 92 mm (12.5 x 9.9 x 3.6 in.)
Weight	Typ. 5 kg (11 lbs)
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	EN 60068-2-6, EN 60721-3-2 class 2M2
Shock	EN 60068-2-27

[1] Please find current specifications in the latest price list
[2] Depends on the system configuration

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

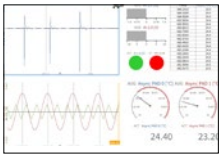
DEWE-ORION "A/D Boards" offer simultaneous sampled analog inputs, synchronous digital I/Os, high-performance counters and high-speed CAN interfaces. DAQP- or MDAQ signal amplifiers and software are needed as well.

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

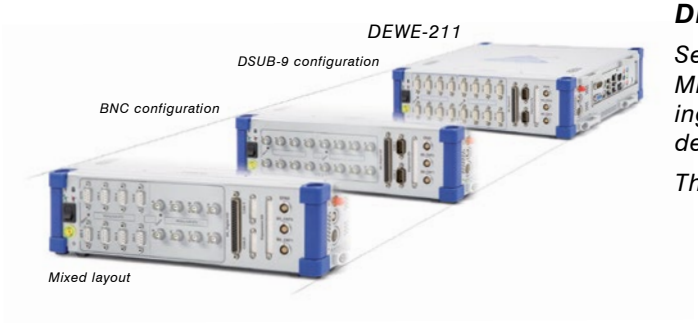


Software

DEWE-30-16

VIDEO

VGPS



DEWE-211

Sensor input via differential MDAQ analog input amplifiers. MDAQ modules are available in cost efficient and space saving 8-channel blocks. See chapter "Signal Conditioning" for details.

Three differential standard front panels are available.

System options and upgrades for DEWE-211 series	
Options	**Description**
211-REMOTE-ON	Change power supply configuration to remote-on mode, useful for in-car applications to start the DEWE-211 when the ignition of the car is turned on, incl. cable 2 m terminated with 3 banana plugs, in this mode there is a general power-on delay of approx. 8 seconds
DEWE-UPS-150-DC	External 130 W UPS and multi-battery charger with 9 .. 36 V_{DC} input range for powering systems with wide range DC input, output of DEWE-UPS-150-DC is 12 .. 16 V_{DC} when running from batteries and 24 V_{DC} when powered from DC, 2 slots for BAT-95WH batteries, 2 batteries included, mechanically compatible with DEWE-211, REMOTE-ON option is not available when DEWE-UPS-150-DC is connected to DEWE-211
Upgrades	**Description**
211-CPU-UP-i7	Upgrade of PC for DEWE-510 series; Intel® Core™ i7 processor 2.1 GHz and 4 GB RAM FireWire® interface not available
SSD-120-240	Upgrade of 120 GB flash disk to 240 GB flash disk
SSD-120-480	Upgrade of 120 GB flash disk to 480 GB flash disk

DEWE-211 with battery pack

The optional battery pack DEWE-UPS-150-DC turns the DEWE-211 into a fully battery powered instrument. The hot-swappable batteries guarantee continuous operation without an external power source. The instrument provides 2 slots for BAT-95WH batteries and can be operated for up to ~2 hours with 2 batteries installed. Since this time depends a lot on the system configuration the battery status is shown directly in the software. Also alarm conditions can be set and the battery parameters can be displayed as additional measurement channels.

Channel Expansion

Signal conditioning for slow signals is added by connecting EPAD2 series modules to the systems EPAD interface.

For expanding the number of dynamic channels there are two choices:

***Analog cable**: A 32ch ORION series A/D card is installed into the DEWE-1201 and external signal conditioning, e.g. DAQ modules in a DEWE-30 chassis, is connected by means of an analog signal cable.*

***DEWE-NET**: Several instruments are connected via Ethernet. Each unit requires an ORION-SYNC option to synchronize all A/D converters. For short distances a synchronisation cable is used if the units are far from each other a sync interface like DEWE-CLOCK is used.*

DEWE-31-16 channel expansion

DEWE-211
with DEWE-UPS-150-DC

DEWE-POWERBOX-12
DC Power distribution box

Interfaces

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