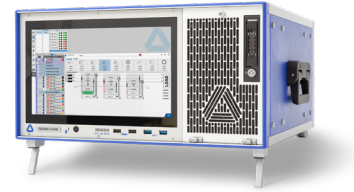


# DEWE3-PA8



## Key facts

- ▶ Modular, high-speed mixed signal power analyzer
- ▶ 8 slots for TRION/TRION3 acquisition modules
- ▶ Up to 16 power channels (U, I @ channel); expandable
- ▶ Integrated 11.6" multi-touch Full HD wide screen (1920 x 1080 px)
- ▶ Sensor power supply ( $\pm 15$  V / +9 V) with separate power supply



## System specifications

<b>DEWE3-PA8</b>	
Open slots for TRION(3) modules	8
Features <sup>1)</sup> (optional)	<ul style="list-style-type: none"> <li>– 1 programmable frequency output (10 to 1,000,000 Hz)</li> <li>– 2 advanced counter input, 2 basic counter</li> <li>– 8 digital inputs, 4 digital outputs</li> </ul>
Input specification	Supports all TRION/TRION3 (high-speed) series interface boards except 3 <sup>rd</sup> -party modules <sup>2)</sup> . Optimized to operate with high-speed TRION3 boards.
Input channels	Up to 16 voltage, 16 current and auxiliary inputs
High-speed channel expansion	Add TRIONet at any time via SYNC interfaces or other instruments via OXYGEN-NET
Low-speed channel expansion (100 Hz)	XR series modules via EPAD connector (RS-485 interface) or via TRION-CAN interface.
Quasi-static channel expansion	EPAD2 interface connector, XR via TRION-CAN
Sensor power supply	8 power supply connectors for connecting current clamps and transducers ( $\pm 15$ V / +9 V); Redundant, dedicated power supply for sensor power supply installed into the chassis
<b>Main system</b>	
System bandwidth	max. 1000 MB/s (depending on system configuration) <sup>3)</sup>
Data storage	<ul style="list-style-type: none"> <li>– Drive bay at the front</li> <li>– Drive bay at the rear</li> </ul>
Display	Full-HD 11.6" multi-touch wide screen (1920 x 1080 px)
Power consumption incl. modules <sup>4)</sup>	Typ. 220 W without sensor supply
Main power supply	Rated input voltage: 100 to 240 V <sub>AC</sub> (max. 90 to 264 V <sub>AC</sub> ), 600 W AC power supply
Redundant power supply	Rated input voltage: 100 to 240 V <sub>AC</sub> (max. 90 to 264 V <sub>AC</sub> ), 200 W AC power supply for sensor
Noise emissions <sup>5)</sup>	<ul style="list-style-type: none"> <li>– System idle</li> <li>– CPU max. heat</li> <li>– Max. fan</li> </ul>
Cooling capacity	25 W per module slot

Tab. 1: System specifications DEWE3-PA8

DEWE3-PA8		
MTBF	with chassis controller	19,495 h (with fans)
		22,933 (without fans)
	without chassis controller	20,859 h (with fans)
		24,064 h (without fans)
Dimensions (W x D x H)		Without feet: 442 x 435 x 222 mm (17.4 x 17.1 x 8.7 in.)
Weight w/o TRION modules		Typ. 14 kg (30.9 lbs)
<b>Environmental specifications</b>		
Operating temperature		0 to +50 °C, down to -20 °C with pre-warmed unit
Storage temperature		-20 to +70 °C
Humidity		10 to 80 % non cond., 5 to 95 % rel. humidity
Max. altitude		2000 m (10,000 ft)
<b>Sine vibration test<sup>6)</sup>; EN 60068-2-6</b>		
Shape		Sine
Frequency range		10–150 Hz
Acceleration		20 m/s <sup>2</sup>
Sweep rate		1 oct./min.
Duration test in 3 directions		20 cycles
<b>Random vibration test<sup>6)</sup>; EN 60721-3-2; Class 2M3</b>		
Frequency range		10–200 Hz
Spectral acceleration density		1 m <sup>2</sup> /s <sup>3</sup>
Duration		30 minutes/direction
<b>Shocktests<sup>6)</sup>; EN 60068-2-27</b>		
Pulse form		Half-sine
Acceleration amplitude		30 g
Duration		11 ms
Direction		3 bumps each direction, 6 directions in total

Tab. 1: System specifications DEWE3-PA8

- 1) The interfaces are only present on the device if at least one of the optional features has been purchased.
- 2) TRION3-1820-MULTI-AOUT and TRION3-AOUT depending on operating mode.
- 3) For further information refer to chapter [Block diagram](#).
- 4) Depending on installed TRION series modules. Refer to the [TRION technical reference manual](#).
- 5) Tested with DEWE3-PA with chassis controller installed, 2x TRION3-1820-MULTI-4D and 3x TRION3-1810M-POWER-4 measurement boards; 1 m distance to system (front); remaining slots covered with cover panels.
- 6) Tested with SSD.

## Options and accessoires

Upgrades	
OPT-LINUX	Linux Ubuntu option for DEWE3 systems
OPT-SECURE-BOOT	Windows secure boot option (DoD-ready) for a new DEWETRON system
SSD-PCIe-1T-2T	Upgrade from 1 TB to 2 TB industrial grade, PCIe attached solid state disk

System options	
DW3-5U-MK	19" installation kit for DEWE3 systems with 5 HU

## Block diagram

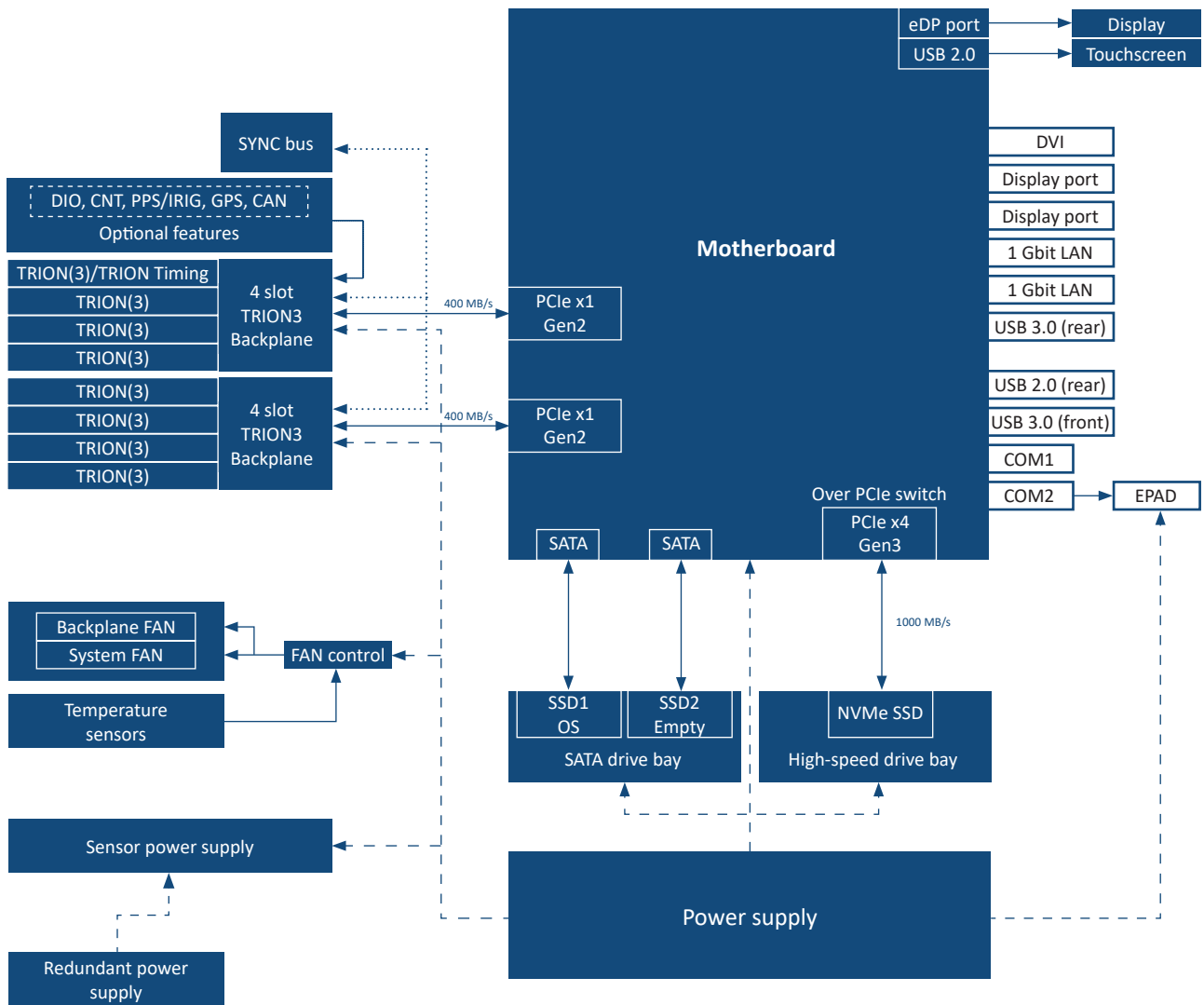


Fig. 2: Block diagram

### INFORMATION

Depending on the selected device variant, some components may or may not be present in the above block diagram.