

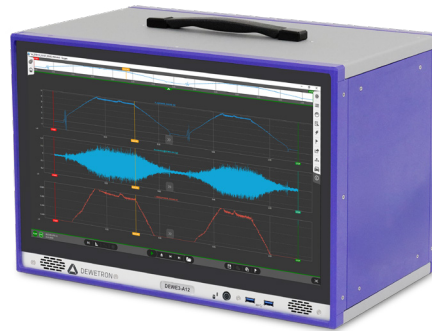


DEWE3-A8/A12/A8-PA



Key facts

- ▶ Portable all-in-one data acquisition system
- ▶ Up to 64 (DEWE3-A8) or 96 (DEWE3-A12) isolated high-speed channels
- ▶ Powerful processor integrated
- ▶ 18.5" touch screen



System specifications

DEWE3-A8/A12 DEWE3-A8-PA			
General			
Input channels	Up to 64 (DEWE3-A8) or 96 (DEWE3-A12) isolated high-speed channels (100 S/s to 5 MS/s)		
Input specification	Supports all TRION/TRION3 (high-speed) series interface modules. Optimized to operate with high-speed TRION3 series modules.		
Features ¹⁾ (optional)	<ul style="list-style-type: none"> – 1 programmable frequency output (10 to 1,000,000 Hz) – 2 advanced counter input, 2 basic counter – 8 digital inputs, 4 digital outputs 		
Open slots for TRION(3) modules	8 or 12		
High-speed channel expansion	Add TRIONet3 at any time by SYNC interfaces or other instruments via OXYGEN-NET		
Low-speed channel expansion	XR modules via RS-485 or TRION-CAN		
Data storage	3 removable drive bays equipped with <ul style="list-style-type: none"> – 1 TB SSD-PCIe (2 TB optional) – 512 GB SSD for operating system (1 TB optional) 		
System			
Computer	Intel Core i7, 16 GB or 32 GB RAM ²⁾		
Connectivity	4x Display Port, 4x USB 2.0 (Type A), 5x USB 3.2 (Type-A), 1x USB 3.2 (Type C), 1x 1 Gbit Ethernet, 1x 2.5 Gbit Ethernet, 1x COM (RS-232), 1x Wifi antenna, 1x EPAD, 1x TRION-SYNC Optional: 1x 10 Gbit Ethernet, 2x 2.5 Gbit Ethernet, 1x CAN, 1x Digital IN/OUT, 1x GPS		
MTBF	Without Chassis Controller option	With Chassis Controller option	
	– without fans	24,805 h	23,605 h
	– with fans (5-year maintenance)	20,474 h	19,159 h
Dimensions (W x D x H) without feet	456 x 273 x 324.5 mm (18 x 10.8 x 12.8 in)		
Weight w/o TRION modules	Typ. 15 kg (33 lb)		
Power supply			
Power input	Rated input voltage: 100 to 240 V _{AC} (max. 90 to 264 V _{AC}), 600 W AC power supply		
Power consumption ²⁾³⁾	Max. 460 W		

Tab. 1: System specifications DEWE3-A8/A12 | DEWE3-A8-PA




DEWE3-A8/A12 DEWE3-A8-PA		
Environmental specifications		
Operating temperature	0 °C to +50 °C, down to -20 °C with pre-warmed unit	
Storage temperature	-20 °C to +70 °C	
Humidity	10 % to 80 %, non condensing; 5 % to 95 % rel. humidity	
Sine vibration test; EN 60068-2-6		
Shape	Sine	
Frequency range	10–150 Hz	
Acceleration	20 m/s ²	
Sweep rate	Sweep 1 oct/min	
Duration test in 3 directions	20 cycles	
Shocktests; EN 60068-2-27		
Pulse form	Half-sine	
Acceleration amplitude	15 g	
Duration	11 ms	
Direction	3 bumps each direction, 6 directions in total	
Random vibration test; EN 60721-3-2:2018; Class 2M4		
Test scenarios	Frequency range	10–20 Hz
	Spectral acceleration density	1 m ² /s ³
	Frequency range	50–2000 Hz
	Spectral acceleration density	0.5 m ² /s ³
Duration	30 min/direction	
RMS value of acceleration	3 g	

Tab. 1: System specifications DEWE3-A8/A12 | DEWE3-A8-PA

- 1) The interfaces are only present on the device if at least one of the optional features has been purchased.
- 2) The amount of RAM depends on the system configuration at the time of purchase. 16 GB RAM by default; 32 GB RAM if upgrade option RAM-16G-32G has been ordered.
- 3) Depending on installed TRION/TRION3 series modules.

Ordering versions/options

Configuration options

Configuration options			
	DEWE3-A8	DEWE3-A12	DEWE3-A8-PA
			
Input channels	Up to 64 isolated high-speed	Up to 96 isolated high-speed	Up to 16 power phases; 8-channel redundant sensor power supply (±15 V/+9 V)
Open slots for TRION(3) measurement boards	8	12	8

Tab. 2: Configuration options

Connections and ports

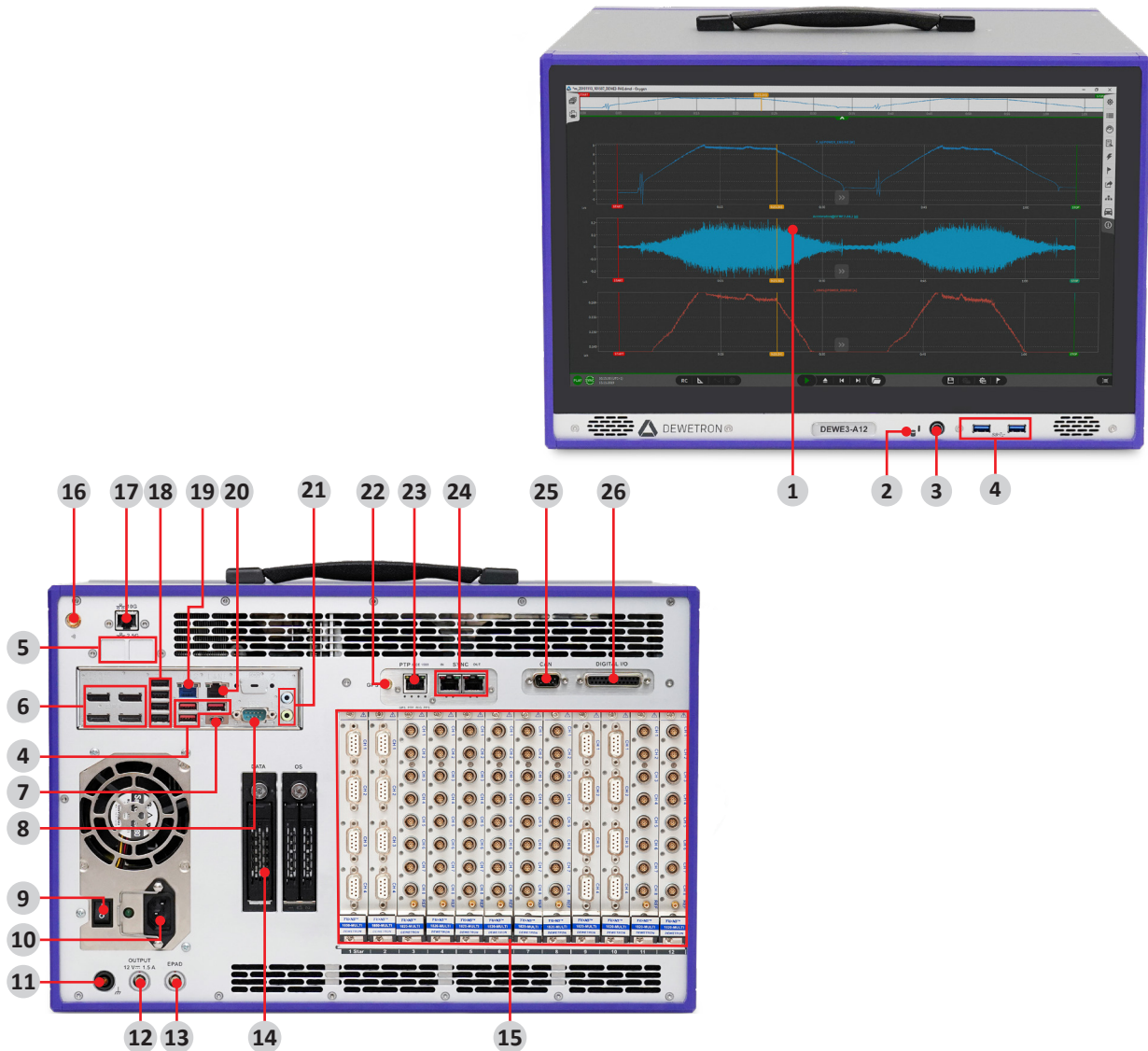


Fig. 3: Connections and ports

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|--|---|
| <ol style="list-style-type: none"> 1. Multi-touch display 2. SSD activity LED 3. Power on/off push button 4. USB interface connectors (USB-A 3.2) 5. 2.5 Gbit Ethernet LAN connectors (optional) 6. Display port connectors 7. USB interface connectors (USB-C 3.2) 8. RS-232 interface connector (COM 1) 9. Main power switch 10. Power supply input connector 11. Chassis terminal (ground connection) 12. Power supply output for accessories 12 V 13. EPAD connector (LEMO) | <ol style="list-style-type: none"> 14. SSD drive bays for operating system and data storage 15. TRION/TRION3 series module slots 16. Wifi antenna 17. 10 Gbit Ethernet LAN connectors (optional) 18. USB interface connectors (USB-A 2.0) 19. 2.5 Gbit Ethernet LAN connectors 20. 1 Gbit Ethernet LAN connectors 21. Audio I/O interface 22. GPS antenna (optional)¹⁾ 23. PTP/IEEE 1588 (optional)¹⁾ 24. SYNC I/O interface (TRION SYNC-BUS)¹⁾ 25. CAN interface (D-SUB-9) (optional)¹⁾ 26. Digital I/O connector (D-SUB-25) (optional) |
|--|---|

¹⁾ The interfaces are only present on the device if at least one of the optional features has been purchased.

Chassis controller options

Chassis controller options	
DEWE3-OPT-CAN	Optional CAN port
DEWE3-OPT-IRIG/PTP	Optional IRIG/PTP sync available on front plate
DEWE3-OPT-DIO	Optional digital IO: 8x DI shared with 4x counter (2x encoder, 2x up/down), 4x DO
DEWE3-OPT-GPS	Optional GPS sync available on front plate including a GPS antenna

Tab. 3: Chassis controller options

Upgrades

Upgrades	
OPT-LINUX	Linux Ubuntu option for DEWE3 systems
OPT-SECURE-BOOT	Windows Secure Boot option (DoD-ready) for a new DEWETRON system
UPG-OPT-x4-2x2.5-GBit-LAN	Installation of 2 additional 2.5 Gbit/s LAN interfaces (RJ45) on the rear panel INFORMATION Cannot be combined with UPG-OPT-x4-1x10-GBit-LAN
UPG-OPT-x4-1x10-GBit-LAN	Installation of 1 additional 10 Gbit/s LAN interface (RJ45) on the rear panel INFORMATION Cannot be combined with UPG-OPT-x4-2x2.5-GBit-LAN

Tab. 4: Upgrades