



SonoDAQ LT

The Next-Gen Data Acquisition System

Introduction



SonoDAQ LT is a lightweight, modular data acquisition host designed for acoustic and vibration testing on production lines, specifically tailored for fixed stations, batch deployment, and standardized testing scenarios. It inherits the core capabilities of the SonoDAQ platform, including high-precision data acquisition, modular expansion, and network connectivity, while optimizing configurations for production line applications. This ensures testing requirements are met while balancing deployment efficiency, system consistency, and overall cost.

For applications such as electroacoustic production lines, module testing, and complete machine offline testing, SonoDAQ LT can efficiently collaborate with upper-level software, automated fixtures, and industrial control systems, helping users quickly establish stable, easily replicable, and maintainable testing stations. Compared to the more research and field-oriented SonoDAQ Pro, the LT emphasizes practicality and cost-effectiveness required at the production line, making it suitable for large-scale implementation and long-term operation, thereby providing customers with a unified and reliable testing infrastructure.

Highlights

- **Lightweight host platform for production line scenarios**

The product is developed for acoustic and vibration testing scenarios at the production line, suitable for fixed stations, standardized testing, and batch deployment applications, balancing system practicality, deployment convenience, and cost-effectiveness.

- **Modular architecture, configurable as needed**

With a modular design, it can configure corresponding acquisition modules based on different test objects and station requirements, facilitating system integration, subsequent expansion, and unified management.

- **Dual Ethernet network interfaces for easy system integration**

Equipped with dual Ethernet network interfaces, it can be used for device networking, host communication, and integration with automation systems.

- **High isolation design, suitable for complex electrical environments**

The system has high isolation capabilities, helping to reduce the impact of external interference and enhancing system safety and measurement stability in complex power supply environments.

- **Low power consumption design, ensuring long-term operational stability**

With a low power consumption design, it effectively reduces the temperature rise impact during long-term operation, suitable for continuous work scenarios on the production line, ensuring stable output of testing performance.

Technical Specifications

Host Parameters

Number of Channels	Up to 24 Channels	Isolation Voltage (Between Modules)	1000 V
Number of Slots	6	Interfaces	USB-C / Ethernet / GPIO
Operating Environment Temperature	-10 °C to 50 °C	Calibration	Power-On Self-Calibration / On-Site Calibration Service
Power Supply Method	DC / PoE++ / Battery (Hot Swappable)	Firmware Upgrade	OTA / User End
Vibration, Shock	EN60068 - 2	Power Consumption	8 W
System Cooling	Fanless	Protection Level	IP43

Order Information

Name	Model	Description
SonoDAQ LT	CRY5810	Lightweight and easily deployable acoustic and vibration data acquisition system host
Analog Input Module IED	CRY5011	4-channel analog input module supporting IEPE power supply
Analog Output Module ADD	CRY5085	2-channel output module supporting signal output + Class D amplifier output + impedance measurement
Analog Output Module AOS	CRY5083	Amplifier drive, excitation control, active sound source, and standard voltage simulation scenarios
Analog Input Module LMQ	CRY5014	Supports LEMO, IEPE, Charge, and Voltage inputs, adaptable for pre/post polarized microphones, accelerometers, and various voltage signal measurements.