DL-DAQ-703 Technical Specification

High-Performance Dynamic Signal Acquisition System

High-performance dynamic signal acquisition system for high-precision measurement in strong-interference environments, supporting strain, voltage, IEPE, charge, current, and resistance measurements, channel isolation, +/-500 V common-mode voltage suppression, 16-channel modules, gigabit Ethernet expansion, intelligent lead identification, TEDS support, four-wire bridge excitation, and up to 256 kHz per-channel continuous sampling.

System Category	DL-DAQ
Signal Type	High-performance dynamic DAQ
Measurement Range	Strain, voltage, IEPE, charge, current, and resistance inputs
Sampling / Response	Up to 256 kHz per channel
Communication	Gigabit Ethernet expansion
Protection / Enclosure	Strong-interference test environment
Power Supply	System cabinet power
Installation	High-performance dynamic DAQ chassis

Key Features

- Channel isolation and shielding support high-radiation and strong-interference measurement environments.
- Supports strain, voltage, IEPE, charge, current, and resistance signal types.
- TEDS and intelligent lead identification improve sensor setup workflows.
- Technical basis may reference GB/T 6587 environmental requirements.

Typical Use Cases

- High-precision dynamic measurement in strong-interference test environments.
- Laboratory and industrial tests requiring isolated channels and high sampling rates.

Deployment Notes

- Confirm input module type, channel isolation needs, common-mode voltage, bridge excitation, and sampling rate.
- Plan grounding, shielding, Ethernet expansion, and sensor identification setup.
- Remove original supplier model identifiers and promotional wording from public materials.

Technical Highlights and Standards

- 16-channel modules
- +/-500 V common-mode suppression
- 18-bit A/D conversion

- Up to 256 kHz per channel
- TEDS support
- GB/T 6587 reference