Applications

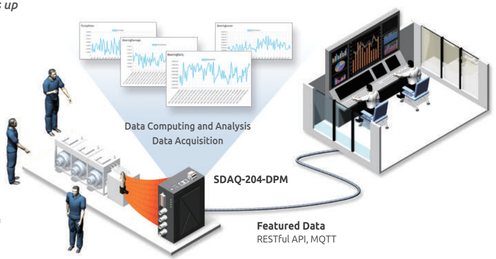


Intelligent Semiconductor Pump Monitoring

The LPCVD furnace processes 50-150 wafers simultaneously. A critical vacuum pump maintains exhaust vacuum. Pump failure or bearing issues disrupts operations and leads to wafer loss. To mitigate this, over 100 edge devices and 400 sensors enable constant remote monitoring and predictive maintenance of key machines.

Customer Benefits

- *Edge computing reduces data volume and speeds up response time to achieve real-time data analysis*
- *Plug & play with built-in independent algorithm, saving OT deployment cost*
- *Remote management, easy upgrades and maintenance with RESTful API, MQTT supported*



Products



SDAQ-204-DPM

Programmable Smart DAQ with 4-ch Sound and Vibration Input, 24-bit, 128kS/s, 4-ch DI/O

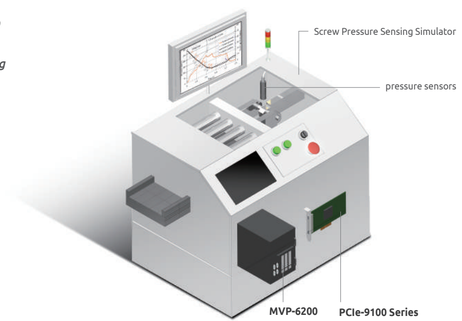


High-precision Screw Quality Testing

Screw manufacturing, challenged by vibration and noise, results in defects requiring extensive time and resources to discard. Real-time defect monitoring through pressure sensors, analyzing deviations from normal pressure curves, can greatly reduce rejection time. In such an environment, monitoring equipment must endure harsh conditions to collect data quickly and accurately.

Customer Benefits

- *Up to 1M sampling rate, 16-bit resolution, and ±200 mV range ensure precise pressure data acquisition.*
- *Accurate real-time data collection aids in monitoring machine condition and detecting screw defects.*
- *The ADLINK board efficiently filters noise, enhancing signal processing.*
- *MAPS test and measurement utility simplifies device setup and app development.*



Products



PCIe-9100 Series

Programmable Smart DAQ with 4-ch Sound and Vibration Input, 24-bit, 128kS/s, 4-ch DI/O

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Learn More
DAQ Solutions

ADLINK
LEADING EDGE COMPUTING



Intelligent Data Acquisition Solutions





Comprehensive Data Acquisition Solutions Fulfill Various Testing Needs

Enhanced Maintenance with Intelligent Data Acquisition

ADLINK's easy, reliable, and intelligent DAQ solutions facilitate your IIoT applications by collecting accurate real-time data for analysis to improve production capabilities and increase operational efficiency.

DAQPilot



- Precise Acquisition from Various Sources
- Easy-to-Use Testing and Data Analytics
- PCIe- and Ethernet-based for Diverse Applications

Enabling Effective Remote Equipment Monitoring

ADLINK DAQPilot is smart DAQ software capable of efficiently streaming data from devices distributed for analysis, accelerating the implementation of IIoT applications.

- Designed for mass device management, including discovery, configuration, and control
- Enables web browser setup for simple remote data acquisition
- Task-oriented and optimized SDK for typical DAQ applications
- Simplify cloud data publishing for IoT with RESTful API support



Standalone smart DAQ and new-gen PC-based DAQ

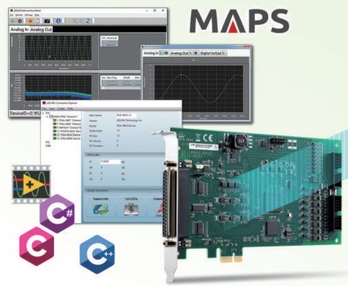
Edge DAQ

- Arm-based design suitable for scalable edge computing deployment
- Ethernet-based remote monitoring
- Easy configuration with built-in web console
- Efficient mass device deployment with DAQPilot edge management utility



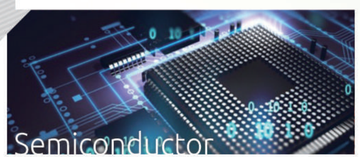
PC-based DAQ

- Great flexibility with wide IPC compatibility
- High-performance synchronization capability
- Scalable functionality with ADLINK motion/ vision card
- Simplifiled testing process with all-in-one Measurement, Automation, and Platform Suite











Ethernet DAQs



Current *Voltage*

SDAQ-216/218
16/8-ch Multifunction AI, 16-bit, 250 kS/s, 2 AO, 4 DI/O



Vibration

SDAQ-204 series
4-ch Simultaneous AI, 24-bit, 128 kS/s, 4 DI/O, IEPE type sensor

USB DAQs



Temperature *Strain Gauge* *Current* *Voltage*

USB-2401
4-ch 24-bit universal input USB DAQ modules



Vibration

USB-2405
4-ch 24-bit 128kS/s dynamic signal acquisition USB 2.0 module

PCIe/PCI DAQs



Voltage

PCIe-9100
16/32-ch 16-bit up to 1MS/s Multifunction DAQ



Strain Gauge

PCI/PCIe-9524
24-bit precision load cell input card



Digitizer

PCIe-9834P/9852
4/2-ch 16/14-bit up to 200 MS/s digitizer



Digital I/O

PCIe-7350/7360
32-ch 50/100 MHz high-speed digital I/O card

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