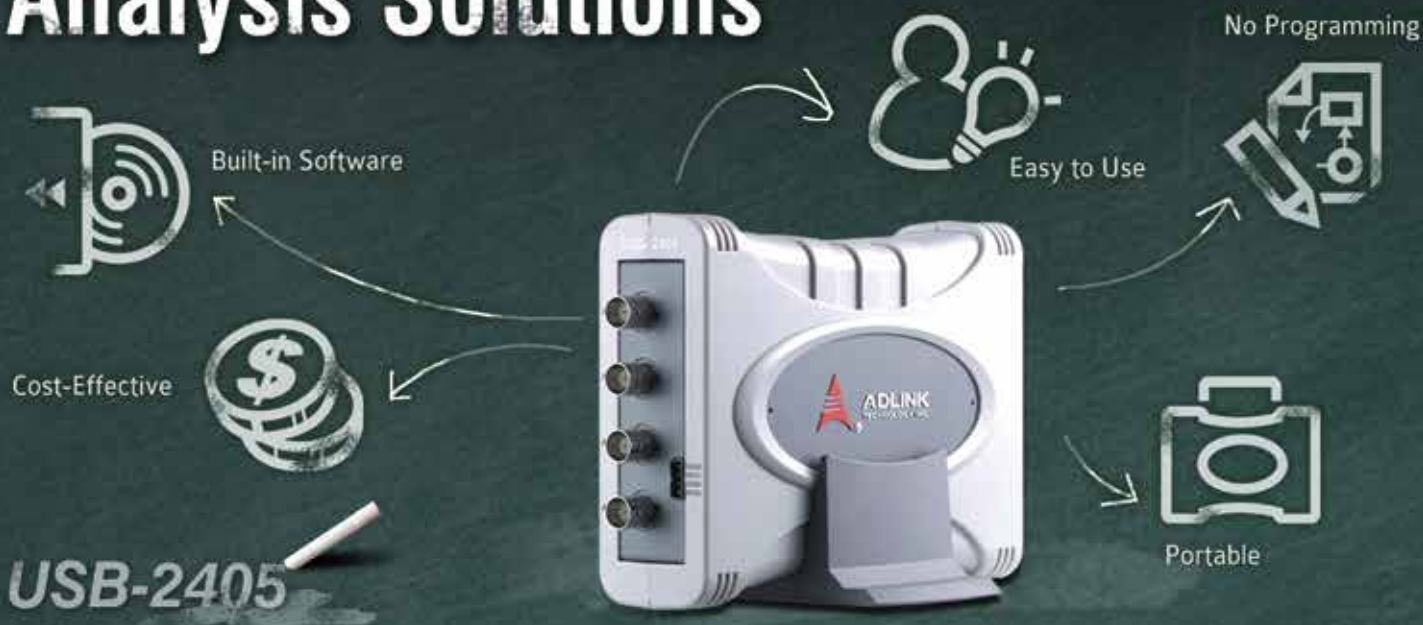


ADLINK Portable Vibration Analysis Solutions



Combining high accuracy, superior performance, and value-added time-frequency analysis software, the USB-2405 24-bit USB 2.0 dynamic signal acquisition module is the best choice for portable time-frequency spectrum analysis for machine diagnostics and failure prevention, research, and portable field measurement.



Machinery Vibration



Structural Health Monitoring



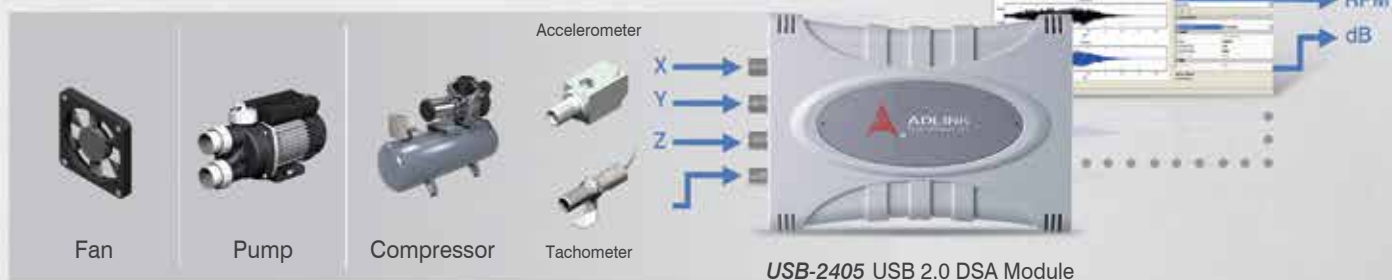
Audio Testing



Scientific Research

Combined with Visual Signal DAQ Express software, acquired data is processed through built-in calculation and algorithm modules and converted to meaningful information for machinery vibration measurement applications.

- Sound level conversion
- Root mean square (RMS) calculation
- Rotary speed calculation
- Frequency spectrum & time-frequency analysis



Domain Focused DAQ Module

USB-2405 USB 2.0 DSA Module

BNC connectors, built-in IEPE excitation current source provides 2mA on each AI channel



Lockable USB connector enhances reliability, securing connection in vibration-prone environments



External conversion clock and trigger connection to GPIO pins enables multiple device synchronization



USB bus powered eliminates the need for external power supply, suitable for portable measurement with notebook or I/O expansion requirements



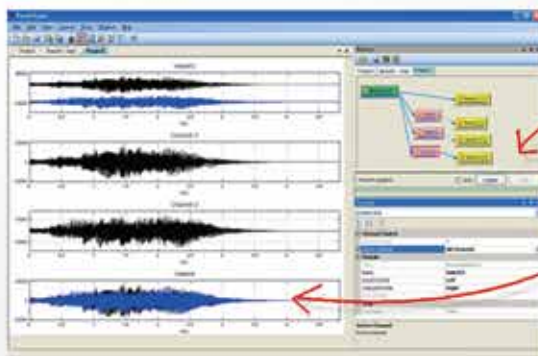
Easy device identification via rotary control provides convenient identification of active module when more than one module is installed

Features

- 4-CH 24-bit simultaneous sampling analog input, up to 128kS/s
- Sampling rate resolution: 3×10^{-4} S/s
- Delivers 100dB wide dynamic range with low temperature drift
- Built-in anti-aliasing filter

Fast, Easy, Visual Time-Frequency Analysis (TFA)

Visual Signal DAQ Express



Visual signal process and analysis functional block library

Easy to read UI enables convenient and quick construction of the required software function block, simplifying multi-task analysis without any programming.

Real-time viewing

For data/waveform display, the Viewer area can be divided into multiple sub-windows.

Features

- Viewer (Channel, X-Y plot, Time-frequency)
- Conversion (Channel Switch, Time shift, Resample, Data selection,..)
- Filter (FIR/Median/Notch/Moving average)
- Mathematics (RMS, Sound pressure level, Diff, Mixer, ..)
- Transform (FFT, IFFT)
- Time-Frequency Analysis (Short-Term FFT)

● The installation USB flash drive for Visual Signal DAQ Express is already attached to the shipment-ready ADLINK USB-2405 and it's free of charge. Users need only follow the instructions on the quick start guide to register on the website and activate their Visual Signal DAQ Express.

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