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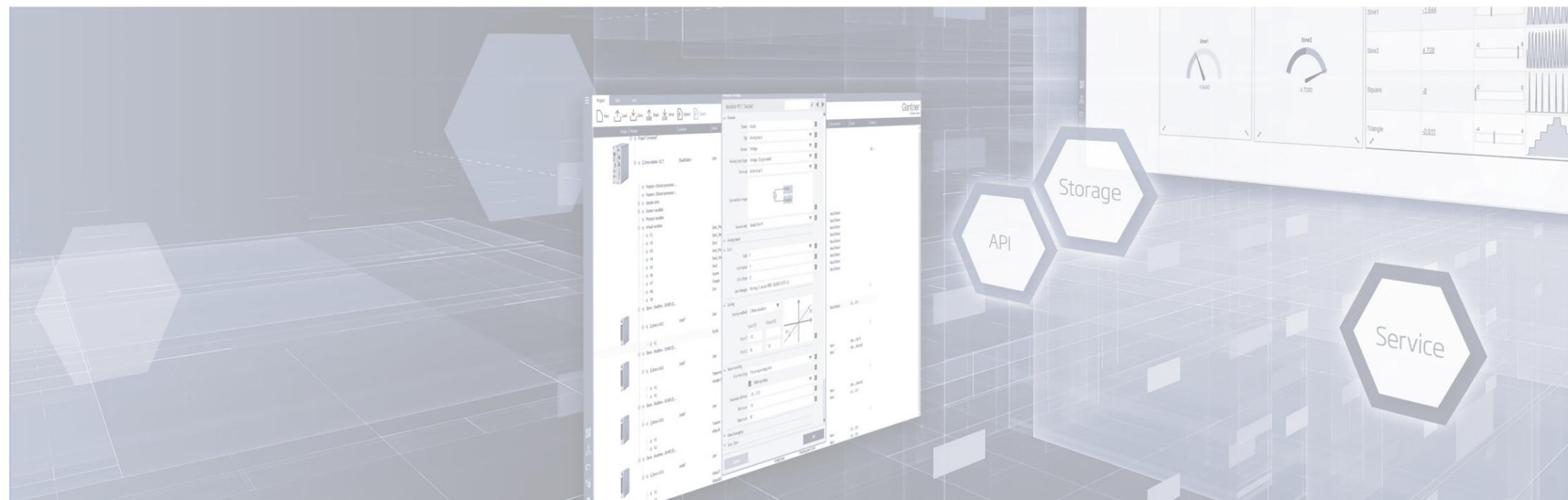
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Test and Measurement Technology.  
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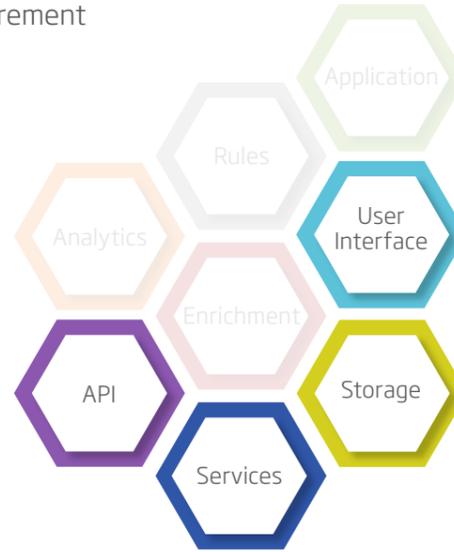
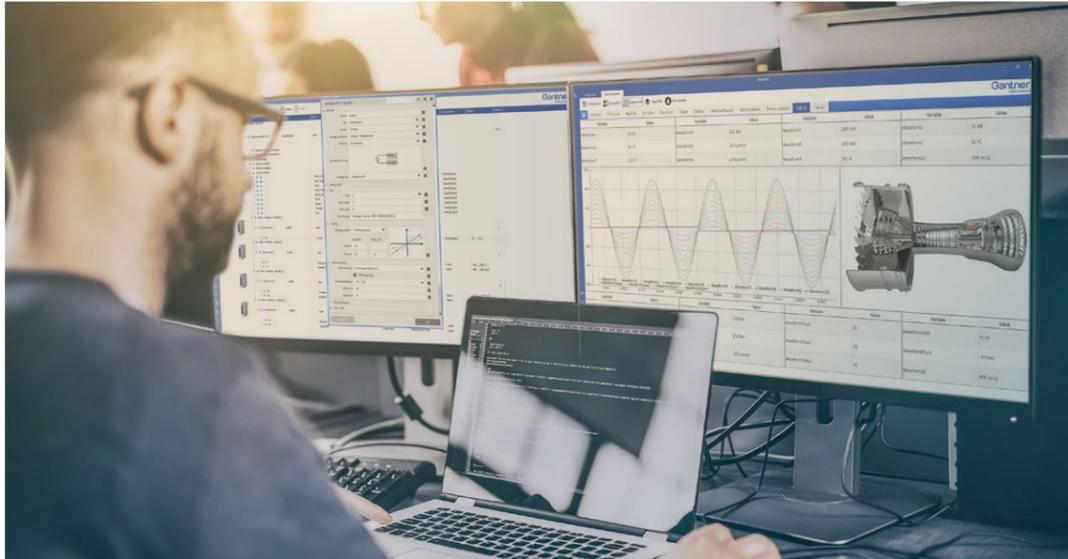
## GI.bench Data Acquisition Software

The Key to Faster  
Measurement Results



# GI.bench Data Acquisition Software - the Key to Faster Measurement Results

GI.bench is a state-of-the-art data acquisition software environment that combines system setup and configuration, as well as logging and monitoring of multiple data streams in one easy-to-use desktop application. GI.bench enables you to configure, execute, and analyze your testing and monitoring projects on the fly with access to high availability measurement data, anywhere.



## Upgrade to GI.cloud

A GI.bench installation can be easily upgraded to a GI.cloud platform for monitoring and controlling distributed I/O devices.

## Key Features

### DAQ System Setup

- I/O module configuration, calibration, alarming
- Project-based configuration
- Channel groups
- Multi-channel editing
- Import and export
- Sensor database
- Offline editing
- Signal quick view

### Data Logging

- Multi-frequency data logging
- Save data in different formats
- Multiple logger modes
- Parallel data logging
- Data stream merging

### Custom Dashboards

- Configurable multi-tab dashboards
- Real-time and historical data
- YT, XY, Oscilloscope, FFT, Bar, 3D
- Embedded IP camera stream
- Remote viewing via any web browser
- Save dashboard layouts with project
- High-granularity zoom
- Signal markers
- Print and save to file

### Online Analysis

- Engineering unit conversion
- Real-time calculation
- Frequency analysis
- Rainflow counting
- Data reduction methods

### Intuitive User Interface

- Modern look and feel
- Multilingual user interface
- Context-sensitive help
- Configuration self-check

### Enhanced Features

- Cloud edge device configuration
- Third-party data stream integration
- PubSub extensions for OPC UA, MQTT, DDS
- Parameterization of CAN, EtherCAT, PROFINET, test.con apps
- Data acquisition with F108 Optical Gage Amplifier and 4 MHz Q.boost
- Advanced API for configuration and data access



## Quick and Easy Setup of Multi-channel DAQ Systems

Reduce setup time and cost to a minimum with channel grouping, multi-channel editing, and robust configuration import and export.



## Configure Multi-frequency Data Loggers

Create multiple data loggers, each with their own configurable channel set and sample rate to minimize data overhead.



## Create Engaging Dashboards

Visualize live and historical data on engaging, personalized dashboards designed to help you make insightful observations quickly.



## Share Dashboards

Allow teams to monitor dashboards on any computer or mobile device using a web browser without the need for additional client software.



## Modern API for Configuration and Data Access

Connect third party applications, promote interoperability, and expand data analysis capabilities using an advanced API.



## Processing of Large Volumes of Data

Add an adaptive and scalable data backend to efficiently process and rapidly analyze large volumes of data.

