

Real time chart Display Tool: AEROPGLG014

The **GLG Toolkit**, developed by **Generic Logic, Inc.**, is a cross-platform graphics framework designed for building high-performance, real-time data visualization systems. The GLG Real-Time Charts Package is a dedicated suite within this toolkit optimized for handling vast datasets updating hundreds of times per second.

Core Architecture & Performance

- **High Update Rates:** Designed to render multiple data lines with tens of thousands of data points at high frequencies without dropping frames.
- **Dynamic Time Handling:** Positions unevenly spaced data using precise timestamps and safely filters out invalid or missing metrics.
- **Flexible Buffering:** Controls history buffer capacities dynamically, allowing data plots to be hidden or shown on the fly without loss of historical tracking.
- **Integrated Interactions:** Includes native utilities for auto-scaling, zooming, panning, multiple Y-axes, tooltips, and cross-hair mouse cursor feedback.

Interactive Customization via GLG Graphics Builder

Developers can customize charts using a code-free approach via the GLG Graphics Builder.

Point-and-Click Editor: Visually edit structural layouts, assign markers, and define layout properties directly.

- **Integrated Prototyping:** Contains a specialized "Run mode" toolbar to simulate incoming real-time data inputs and rigorously test performance bounds before coding.
- **Comprehensive Dashboards:** Combines multiple charts (such as **Strip Charts** and **XY Scatter Plots**) alongside interactive HMI elements like dials, process symbols, and meters.

□ Supported Deployment Options & Libraries

The engine adapts across web, desktop, and embedded ecosystems through specialized language-specific APIs:

- **Web & Mobile Frameworks:** Deploys lightweight client-side applications natively in browsers using pure HTML5 and JavaScript. Dedicated structural wrappers ease native integration for GLG Web Edition JavaScript, React, Angular, and Next.js components.
- **Server-Side Rendering:** Employs the GLG Graphics Server for thin-client infrastructures, dynamically feeding regularly updated graphical images via ASP.NET or JSP.
- **Desktop Environments:** Integrates deep native support using **C/C++ libraries** (for Windows, Linux, and Unix systems), a **C#/.NET Class Library** utilizing Windows Forms, and a standard **Java Class Library**.
- **Embedded Hardening:** Provides a highly optimized Embedded Edition tailored explicitly for ARM-based boards and standalone automation devices.

□ Version Evaluation

Developers can explore the suite through two main paths on the GLG Vector Graphics Editor Download Page:

- **Community Edition:** A completely free version comprising the core GLG Graphics Builder, the Real-Time Charts widget set, and localized C/C++, Java, and C# desktop libraries.
- **Commercial Toolkit:** Unlocks full access to high-performance web deployment packages (JavaScript/React/Angular/Next.js) alongside comprehensive enterprise-grade support.

What specific **operating system** or **programming framework** (e.g., C++, React, Java) are you developing your application on? If you share your target platform, I can provide information on the exact runtime installation steps or data integration code snippets you will need.

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Generic Logic

Real-Time Charts with Tooltips and Cursor Feedback: JavaScript, React, Angular, Next.js, C/C++/C#/.NET, Java, Linux, Windows, Web and Embedded

GLG Real-Time Charts can be used in an application via one of the following GLG API libraries: * C/C++ libraries for Linux/Unix an...

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Multi-Platform HMI & SCADA Toolkit - Generic Logic

The high performance GLG Real-Time Chart displays multiple lines with tens of thousands of data points, updating with real-time da...

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Web / Mobile Edition JavaScript / React / Angular / Next.js

Any chart may be used as a standalone component or as part of a larger GLG HMI display. Both Strip Charts and XY Scatter Plots are...

Show all

The **GLG Real-Time Chart Display Tool** (part of the GLG Toolkit by Generic Logic) is a high-performance cross-platform graphic framework designed for plotting massive datasets and handling extreme update rates in real time. It is heavily relied upon by mission-critical organizations like NASA, Collins Aerospace, and the FAA.

Core Capabilities

- **High-Speed Rendering:** Effortlessly displays multiple plot lines with tens of thousands of data points. It seamlessly updates hundreds of times per second without performance lags.
- **Time and Data Management:** Positions data accurately at uneven intervals using precise timestamps. It handles invalid or missing data points gracefully without breaking the timeline.
- **Integrated History Buffers:** Features real-time scrolling and zooming through massive historic datasets while concurrently plotting live, incoming data streams. You can adjust buffer sizes dynamically on the fly.
- **Advanced Visual Layouts:** Supports both standard **Strip Charts** and **XY Scatter Plots**, as well as complex elements like multiple Y-axes, custom label formatters, and grid lines.
- **Interactive Tooling:** Delivers out-of-the-box cross-hair cursor feedback, multi-plot tooltips, and mouse-click point selection queries.

□ Flexible Architecture & Deployment

The tool is split into a **point-and-click graphics builder** for design and an **API-driven execution engine** for running your application:

1. **GLG Graphics Builder:** Designers use this editor to build graphical dashboards visually without writing manual layout code. The built-in "Run Mode" lets you prototype chart behaviors with simulated data before deploying.
2. **Multi-Platform API Framework:** Once built, developers use runtime APIs to load the chart configuration and feed it real-time production data.

Environment	Supported Platforms & Editions
Desktop & Native	C/C++ (Linux/Unix, Windows, Embedded ARM), Java Class Libraries, and C# / .NET (Windows Forms).
Web & Mobile	Client-side HTML5 JavaScript deployment, with specific component wrappers for React, Angular, and Next.js .
Server-Side Web	The GLG Graphics Server supports legacy server-driven environments like ASP.NET or JSP.

➡️ □ Next Steps & Testing

Generic Logic offers a **Free Community Edition** of the toolkit that includes the Graphics Builder and the Real-Time Charts widget set.

- You can access coding examples, live server-side web demos, and downloads through the official Generic Logic Download Portal.

What specific application are you developing? Let me know your **programming language** or if you need help finding **integration examples** for your framework.

OS & HARDWARE SUPPORT	INDUSTRY APPLICATION

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