

Mission Critical HMI Tools: AEROPGLG011

The GLG (Generic Logic) Toolkit is an enterprise-grade graphical framework for building real-time HMI, SCADA, and telemetry systems. It is favored for mission-critical applications by organizations like NASA, FAA, and BAE Systems because it handles high-performance data visualization, dynamic diagrams, and GIS mapping without lagging.

Core tools and features of the GLG Toolkit include:

- **Interactive Graphics Builder:** A point-and-click HMI editor that allows you to create customizable, data-driven vector graphics and process control displays without manual coding.
- **High-Performance Monitoring:** Capable of processing and rendering tens of thousands of data points in real-time for dynamic dashboards, gauges, and charts.
- **Cross-Platform Deployments:** Offers native C/C++, C#/.NET, and Java libraries for desktop software, as well as a JavaScript library for web/mobile browsers utilizing React, Angular, and Next.js.
- **Embedded Edition:** Specifically designed for ARM-based embedded systems and boards (like Raspberry Pi or NVIDIA Jetson) for edge control scenarios.
- **GIS & Mapping:** Includes a self-contained map server for traffic, telemetry, and network monitoring applications.

For further details, to download evaluations, or to check system requirements, you can visit the Generic Logic website.

If you want, let me know:

- What industry or specific use-case are you building this HMI for (e.g., aerospace, traffic, process control)?
- What programming environment/language (C++, Java, React, etc.) your backend currently uses?

I can help you narrow down exactly which libraries or features of the GLG Toolkit will best fit your architecture.

The GLG Toolkit by Generic Logic is an extremely flexible and robust graphical framework engineered specifically for building mission-critical human-machine interfaces (HMI), SCADA systems, and real-time monitoring dashboards. It allows

developers to bypass the limitations of rigid "black box" tools by providing an open data API and complete creative control over complex visual components.

Key Capabilities and Features

- **Interactive HMI Editors:** Includes a professional Graphics Builder for developers to design complex dynamic visuals. It also offers a simplified HMI Configurator that OEMs can pass along to end-users for self-contained UI editing and layout adjustments.
- **Real-Time Performance:** Optimized to handle high-frequency data streams, allowing charts and telemetry to render tens of thousands of data points simultaneously without lagging.
- **Data Agnostic Architecture:** Easily connects to any proprietary backend, database, or live data acquisition system using its open programming API.
- **Self-Contained GIS Map Server:** Features an integrated high-performance GIS map server capable of rendering offline map data, making it ideal for secure systems operating without internet connectivity.

Multi-Platform & Cross-Framework Deployment

The toolkit is highly versatile because its run-time library can be seamlessly embedded into almost any hardware or software environment without rewriting existing backend code:

- **Web & Mobile:** Deploys native-like browser applications via the GLG Web Edition using a pure JavaScript library or modern frameworks like **React, Angular, and Next.js**.
- **Desktop Environments:** Fully supports native desktop containers using **C/C++, C# (.NET Framework), Java**, and legacy ActiveX controls.
- **Embedded Systems:** The GLG Embedded Edition supports ARM-based computing platforms (ARMv6 to ARM64), including Raspberry Pi, NVIDIA Jetson, BeagleBone, and TI Sitara boards.

Primary Industries & Users

Because it is built for environments where downtime is not an option, the toolkit is heavily relied upon by prominent aerospace, defense, and industrial automation entities: [\[1\]](#)

- **Aerospace & Defense:** Utilized by organizations like **NASA, BAE Systems, and Collins Aerospace** for telemetry and mission control rooms.
- **Industrial Automation & Process Control:** Deployed by industry giants like **Yokogawa and Oracle** for SCADA mimics, plant automation, and network monitoring.

Would you like to explore **how the GLG Toolkit integrates** with a specific programming language, or do you need a comparison with **alternative SCADA/HMI engines**?

OS & HARDWARE SUPPORT	INDUSTRY APPLICATION

Note: ** Specifications are copied from manufacturer data. Please contact before buying.