

Data Center HMI Tool: AEROPGLG07

The **GLG Toolkit** by Generic Logic is a high-performance graphical framework utilized for building custom **Human-Machine Interfaces (HMIs)** and SCADA systems in data centers. It allows developers to create resolution-independent vector graphics that map real-time telemetry from power, cooling, and server infrastructure.

Key Capabilities for Data Centers

- **Dynamic Visualization:** Renders floor maps, power distribution trees, cooling loops, rack layouts, and structural mimics.
- **Real-Time Performance:** Handles high-frequency real-time updates and monitors trends with tens of thousands of data points at low latency.
- **Point-and-Click HMI Editor:** Features the **GLG Graphics Builder**, a desktop tool used to draw HMI components and link visual attributes directly to backend variables without manual code.
- **Cross-Platform Deployments:** Allows developers to author HMI screens once and deploy them natively to web dashboards, mobile screens, or desktop control rooms.

Technical Architecture & Integrations

- **Web and Cloud Frameworks:** Supports modern web interfaces using HTML5 canvas through native components for React, Angular, and Next.js.
- **Desktop & Embedded Environments:** Provides dedicated developer runtimes for C/C++, C#/.NET, and Java.
- **Open Data Connectivity:** Features an Open Data API and the **GLG Data Gateway** to easily bridge the graphical layer with data center infrastructure management (DCIM) tools, database systems, or PLCs.

Would you like to explore **how to bind live JSON telemetry** to the toolkit, see an architectural **comparison with web-native SCADA alternatives**, or get help setting up the **GLG Graphics Builder**?

The **GLG Toolkit** by Generic Logic is an advanced graphical development framework widely used to build high-performance **Human-Machine Interfaces (HMI)**, **SCADA mimics**, and **real-time monitoring dashboards** for mission-critical infrastructure like data centers.

Because data centers require zero downtime and low latency, developers leverage this toolkit to visualize complex power grids, cooling systems, network bandwidth, and server rack telemetry in real time.

Core Architecture & Capabilities

- **Interactive HMI Editor:** Features the *GLG Graphics Builder*, a point-and-click graphical editor that eliminates manual coding. Developers draw complex data center components (e.g., chillers, UPS systems, power distribution units) and define dynamic animations or alarm behaviors directly in the tool.
- **Vendor-Neutral Data Integration:** Includes an **Open Data API** and a *GLG Data Gateway*. This allows the graphics to decouple from the backend, easily connecting to any proprietary data center infrastructure management (DCIM) database, MQTT brokers, Modbus/BACnet streams, or custom telemetry pipelines.
- **Extreme Performance:** Optimized for low-latency updates. It can handle real-time charting and data updates for tens of thousands of data points simultaneously without lagging the host machine.
- **Resolution Independence:** Uses vector graphics to scale interfaces perfectly across varied screen sizes, from centralized Network Operations Center (NOC) video walls to on-site tablets and embedded equipment screens.

Cross-Platform & Deployment Flexibility

A major advantage of the GLG Toolkit is that graphics created in the Builder are reusable across virtually every modern technology stack.

Environment	Supported Frameworks & Languages	Use Case in Data Centers
Web & Mobile	JavaScript, React, Angular, Next.js	Browser-based remote monitoring dashboards with no local installation required.

Desktop	C/C++, C#/.NET, Java	Heavy-duty, dedicated monitoring consoles located in the data center's control room.
Embedded	ARM-based Linux, Windows, RTOS	Localized touch-screen control panels mounted directly onto server racks or cooling units.

For deep dives, example components, or to test their reference frameworks (such as *SCADAViewer*), you can check the Generic Logic Product Information Page and access trial versions via the GLG Toolkit Download Center.

To help tailor this information, what specific **data center systems** (e.g., power monitoring, HVAC, server metrics) are you planning to visualize, and what is your preferred **programming language**?

OS & HARDWARE SUPPORT	INDUSTRY APPLICATION

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