Remote monitoring with powerful data visualization

The G3 IoT Gateway receives direct input signals from sensors, and transmits the data to our Define Cloud Dashboard.

It has all the advanced control features of a PLC, with the added benefit of being able to receive control commands from the Define cloud platform.

As part of our complete, end-to-end IoT solution, it transforms data from your OEM equipment into prioritized action lists.

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Powerful core features

5 YEAR WARRANTY

- ✔ **Define Cloud Services** (DCS) connection
- ✔ **MQTT, Transport Layer Security** (TLS 1.2)
- ✔ **Data record** store and forward record buffer
- ✔ **RTC** record data time stamp at origin
- ✔ **Application logic** and math functions
- ✔ **PC configuration tools**, USB interface
- ✔ **Wireless Wi-Fi** (802.11bgn)

- ✔ **4x Digital inputs**
- ✔ **3x Relay outputs**
- ✔ **1x Auxiliary power output**
- ✔ **2x 4–20mA inputs** (non-isolated)
- ✔ **RS485 ModBus RTU** client/server interface
- ✔ **HMI display port** (RS485)
- ✔ **AC/DC mains** or **11–30V** low power operation

✔ Remote asset monitoring

✔ Telemetry applications

✔ OEM small machine builders who want to add connectivity to their products without becoming IoT experts.

Build it your way

The G3 IoT is fully customizable, with your choice of networking, universal inputs, analog outputs, digital I/O and more. **You can add:**

- ✓ Up to 16 Universal Inputs
- ✓ 16GB Datalogging expansion
- ✓ Up to 8 Analog Outputs
- ✓ Up to 32 Digital I/O's

Build examples:

G3 IoT with Wi-Fi WITH
- ✓ Cellular connection

G3 IoT with Wi-Fi WITH
- ✓ Ethernet port
- ✓ 16x Universal inputs

G3 IoT with Wi-Fi WITH
- ✓ Cellular connection
- ✓ 16 x Universal inputs
- ✓ 32 x Digital inputs
- ✓ 32 x Digital outputs

Stay connected anywhere

Wi-Fi
- ✓ 802.11 b/g/n, 2.4GHz
- ✓ Included with all units

Cellular
- ✓ eMTC LTC Cat-M1 or Cat-1
- ✓ Multi-network SIM

Ethernet
- ✓ ModBus TCP (Slave)
- ✓ HTTP, MQTT Client
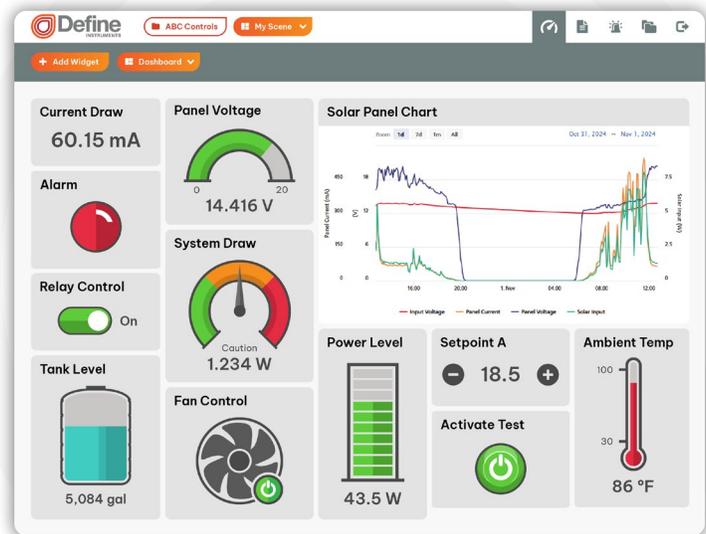
Visualize your data with Define Dashboard

Take control with the ability to visualize your data your way.

Define Dashboard allows you to create a fully customized, dynamic dashboard with an intuitive drag-and-drop interface, offering various visualization options like charts, buttons, and widgets.

It transforms real-time data into actionable to-do lists, automating tasks and optimizing workflows for smoother operations.

The platform also features powerful device management tools, enabling easy control of a large network with real-time monitoring, updates, and customizable alerts to ensure your team stays informed and responsive.

defineinstruments.com/dashboard

DCS | Define Cloud Services

Define Cloud Services - Data Management Plans

	Core	Advanced	Premium
Monthly data limit	4.2MB	25MB	46MB
Real-time alarm notifications	✔	✔	✔
Email alarms	✖	✔ 100/month	✔ 1000/month
SMS alarms	Wi-Fi/Ethernet Plan: ✖ Cellular Plan: ✔ 10/month	✔ 20/month	✔ 50/month
Cloud logging interval	1 minute	1 minute	1 minute
Max logging channels	8	16	30
Number of Dashboards/Users	4	10	50
Data history retention	30 days	365 days	365 days
Download data from historian	✔	✔	✔

Define Cloud Services device management fees apply. Please contact us for current pricing.

Easy setup with Define WorkBench

Define WorkBench offers a comprehensive and yet simple to use setup tool for your G3 IoT.

WorkBench enables effortless configuration of channels, setpoints, alarms, and more.

With its intuitive interface and easy-to-follow guidance, it's designed to be accessible for users of all technical levels, so you can breeze through setup and focus on what matters - your data.

defineinstruments.com/workbench

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