

IoTWorX™

IoT Software Solution for Any Edge Device

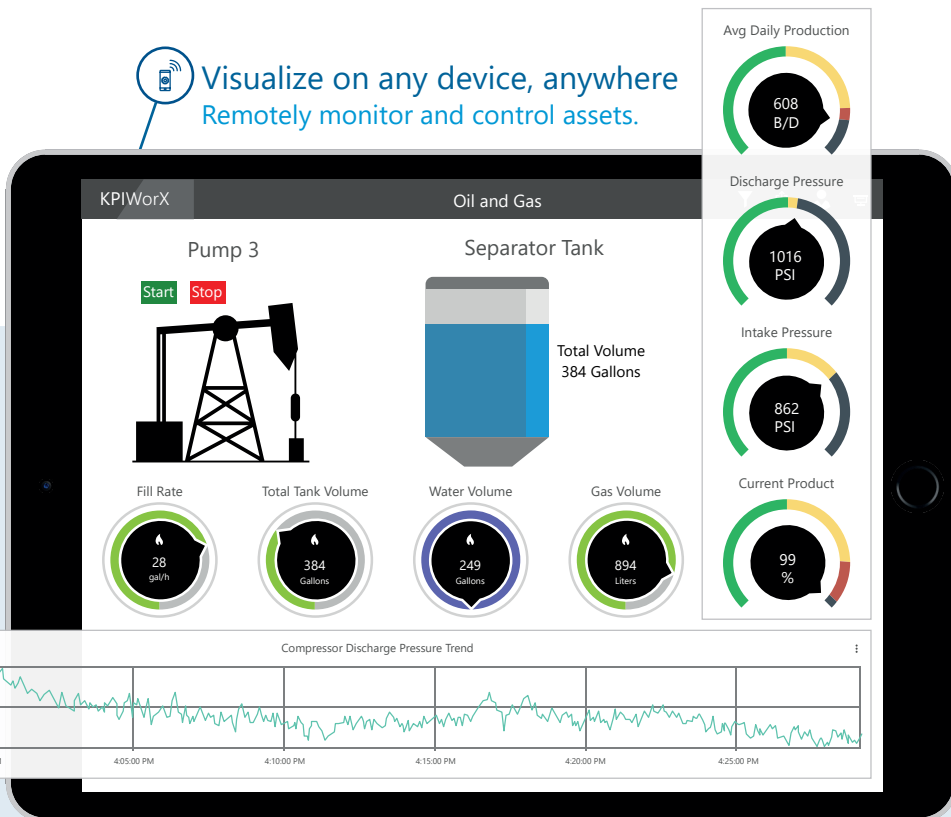


ICONICS IoT Solution

Make your HMI/SCADA platform more accessible and efficient with the power of IoT



Visualize on any device, anywhere
Remotely monitor and control assets.



IoT Hyper Collector

Stores and buffers historical data based on schedules and triggers and automatically merges that data with ICONICS Hyper Historian™ in the cloud.

IoTWorkX™ combines ICONICS' new IoT software technology with its proven HMI/SCADA, analytics, and mobile solutions running in the cloud. ICONICS offers manufacturers and facility managers several **key IoT technologies**, including connectivity to assets, secure cloud communications, local storage, buffering, data collection, and built-in real-time visualization. Analytics at the edge enable faster decision making by leveraging fault detection technology to significantly **reduce costs** and **improve operational efficiency**. Users can connect to virtually any automation equipment through supported **industry protocols** such as OPC UA, BACnet, Modbus, SNMP, web services, and classic OPC tunneling.

IoTWorkX Benefits



Publish data securely to the cloud



Visualize on any device, anywhere



Remotely monitor and control assets



Perform analytics at the edge



Integrate with existing equipment



Store and forward historical data

ICONICS IoT Alliance Program

recommends the best-in-class IoT hardware as IoTWorkX certified devices.

Visit iconics.com/IoT-alliance for a complete list of IoT Alliance Partners.



**IoT Alliance
Program**

Preferred Provider

Cloud Enablement

IoT^{WorX} connects your **buildings, factories, and equipment** through secure TLS encryption and popular cloud platforms, such as **Microsoft Azure** and **Amazon Web Services**. Access your data from **anywhere** through pub/sub architecture for real-time visualization of KPI data at the edge. IoT^{WorX} delivers an efficient, **secure connection** to the cloud through bi-directional AMQP for Microsoft Azure, as well as MQTT, REST, and WebSockets for third party cloud providers. With ICONICS in the cloud, your data is **more intelligent** than ever.



Boston

Occupied
STATUS

834

(KW)

DEMAND



2

ACTIVE FAULTS



128

(MB)

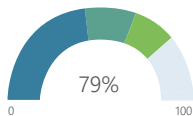
GATEWAY MEMORY USAGE



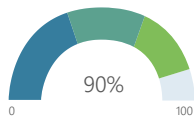
123

(°F)

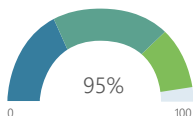
HWS



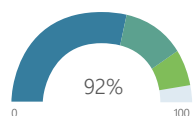
OEE



Availability



Performance



Quality

Leverage cloud services and applications for **maximum efficiency**, security, and scalability. **Scalable provisioning** and **device management** services enable rapid deployment, lifecycle management, and device and application updates.

IoTWorX Integration

ICONICS' IoT solution takes **maximum advantage** of Microsoft's Azure cloud services to provide **global visibility, scalability, and reliability**. Users can leverage standard ICONICS apps in the cloud such as GENESIS64™, Hyper Historian™, AnalytiX®, and more.

Optionally integrate Microsoft Azure services such as **Power BI** and **Machine Learning** to provide greater depth of analysis.



IoT System Health

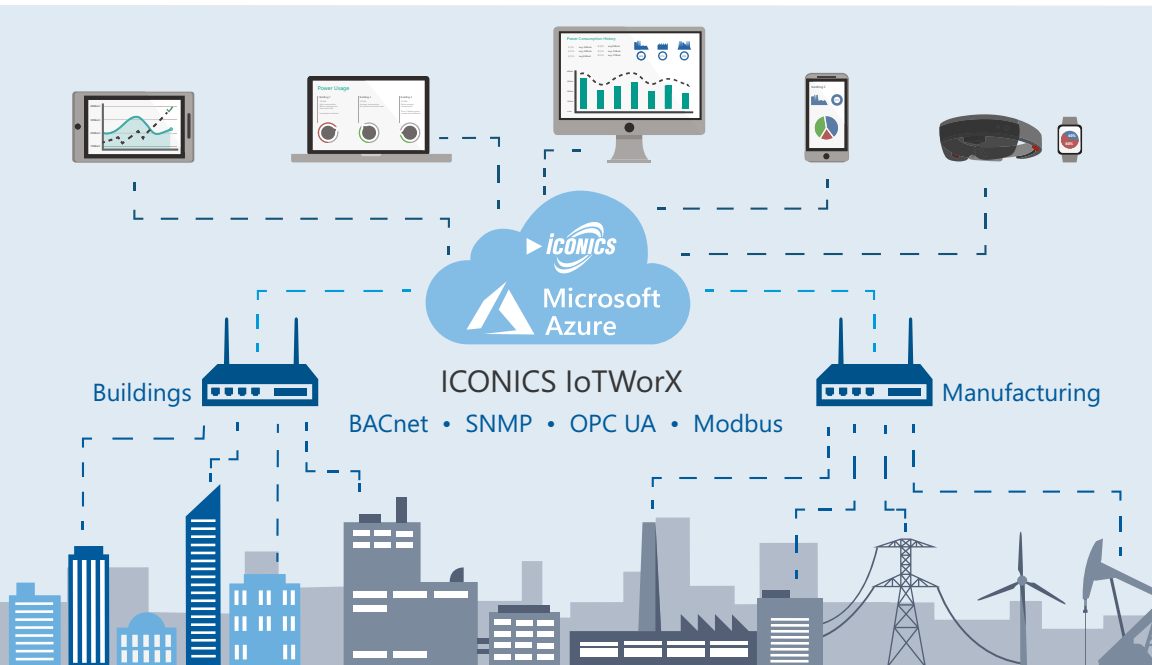
Built-in diagnostics dashboard for IoTWorX software applications and IoT hardware device performance information.

Cloud Connectivity

TLS encryption with x.509 certificates is leveraged to [securely transport](#) IoTWorX data. Supported [industry protocols](#) include OPC UA, BACnet, SNMP, Modbus, and classic OPC tunneling.

Gateway Technology

Gateways integrate devices, sensors, and other equipment to publish messages to the cloud independently from the subscribers. Built-in software modules [decrease latency](#), provide edge data processing, and [empower edge analytics](#) with on board FDD and workflow technologies with [real-time visualization](#) of KPI data.

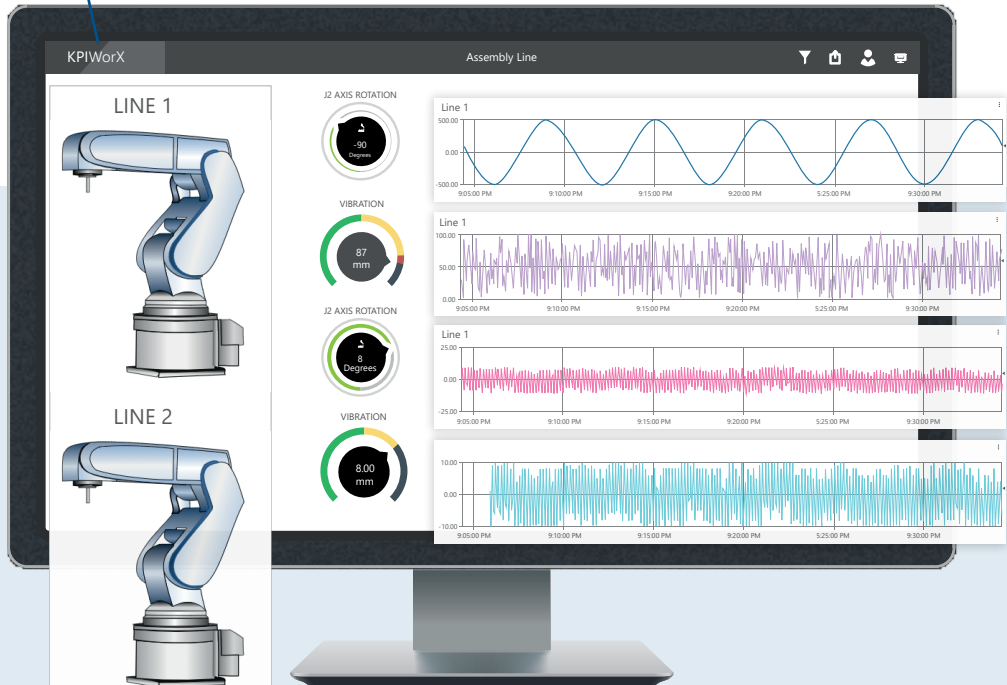


Cloud SCADA systems are backed up **securely off site**; your **data is safe** from equipment damage or natural disasters.



IoT Analyzer

Provides edge analytics with built-in fault rules and workflow technology. Stores and buffers FDD analytics data and automatically merges it with ICONICS Facility AnalytiX® in the cloud.



IoT Cloud Connector for Secure Data Transfer

Publishes real-time data from field devices via AMQP to the Azure IoT Hub or via MQTT to other cloud platforms and 3rd party business systems.



IoT Visualizer

On-premises visualization of IoTWorX data using ICONICS KPIWorX™ app. Download the app from the Apple, Google, or Microsoft Stores.



IoT Communicator for Universal Connectivity

Bidirectional real-time communication to sensors and other field devices via popular standard protocols such as OPC UA, BACnet, SNMP, Modbus, and OPC Tunneling.

Industry Challenges and Opportunities

Are you looking to improve your business processes, financials, and decision-making? What if a new technology could make the invisible, visible, and enable you to make better informed decisions in operating your buildings or factories? The Internet of Things (IoT), driven by Industry 4.0 initiatives, introduces the ability to reduce costs, increase your operational efficiency, and improve sustainability, all in one end-to-end solution.

Ideal for Any Industry

For over three decades, ICONICS' industrial automation software solutions have met and exceeded real customer needs in multiple industries, including:



Automotive



Building Automation



Food and Beverage



Pharmaceutical



Transportation



Water and Wastewater



Power, Utilities, and Energy



Shipping and Logistics



Sustainability and Renewables



Oil, Gas, and Petrochemical



Manufacturing



Government and Military

iconics.com/loTWorX

For more, visit www.iconics.com/loTWorX

© 2019 ICONICS, Inc. All rights reserved. Specifications are subject to change without notice. AnalytiX and its respective modules are registered trademarks of ICONICS, Inc. GENESIS64, GENESIS32, Hyper Historian, BizViz, PortalWorX, MobileHMI and their respective modules, OPC-to-the-Core, and Visualize Your Enterprise are trademarks of ICONICS, Inc. Other product and company names mentioned herein may be trademarks of their respective owners. (09/19)

A Group Company of Mitsubishi Electric



ICONICS, Inc. | 100 Foxborough Blvd. Foxborough, MA 02035 | (508) 543 8600 | iconics.com