# ICONICS - IoTWorX

**AT Automation México Integradores Certificados de ICONICS**

## Líneas **Directas**

+52 (55) 4334 - 9242
+52 (55) 6584 - 9782

Para obtener ayuda en determinar el producto que mejor se adecue a su proyecto, por favor póngase en contacto con nosotros a:

**ventas@atautomation.com.mx**

## Microsoft Partner

**2017 Partner of the Year Winner**
Application Development Award

VISUALIZE | HISTORIZE | MOBILIZE | ANALYZE | IoT CLOUD

# Designed for Use in Many Industries

For more than 30 years, ICONICS has developed leading-edge software tools for manufacturing, industrial, and building automation. ICONICS has shipped over 350,000 products that are installed in applications spanning the globe in various industries:

**Automotive**

**Building Automation**

**Food & Beverage**

**Government & Military**

**Manufacturing**

**Oil & Gas**

**Materials & Mining**

**Pharmaceutical**

**Sustainability**

**Transportation**

**Utilities & Energy**

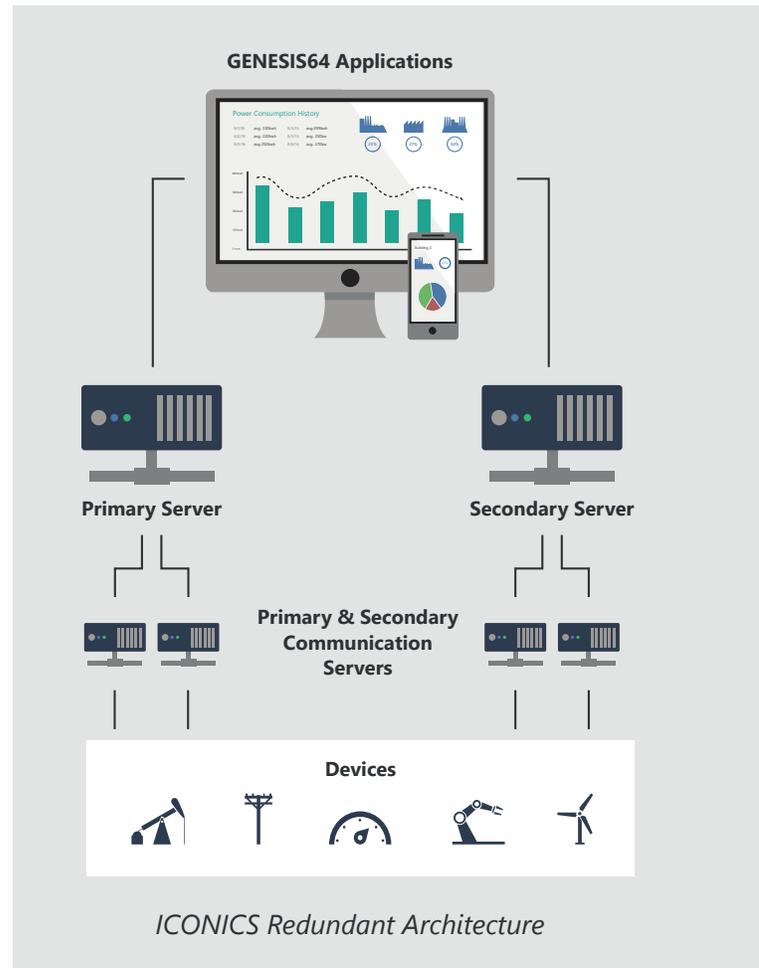**Water & Wastewater**
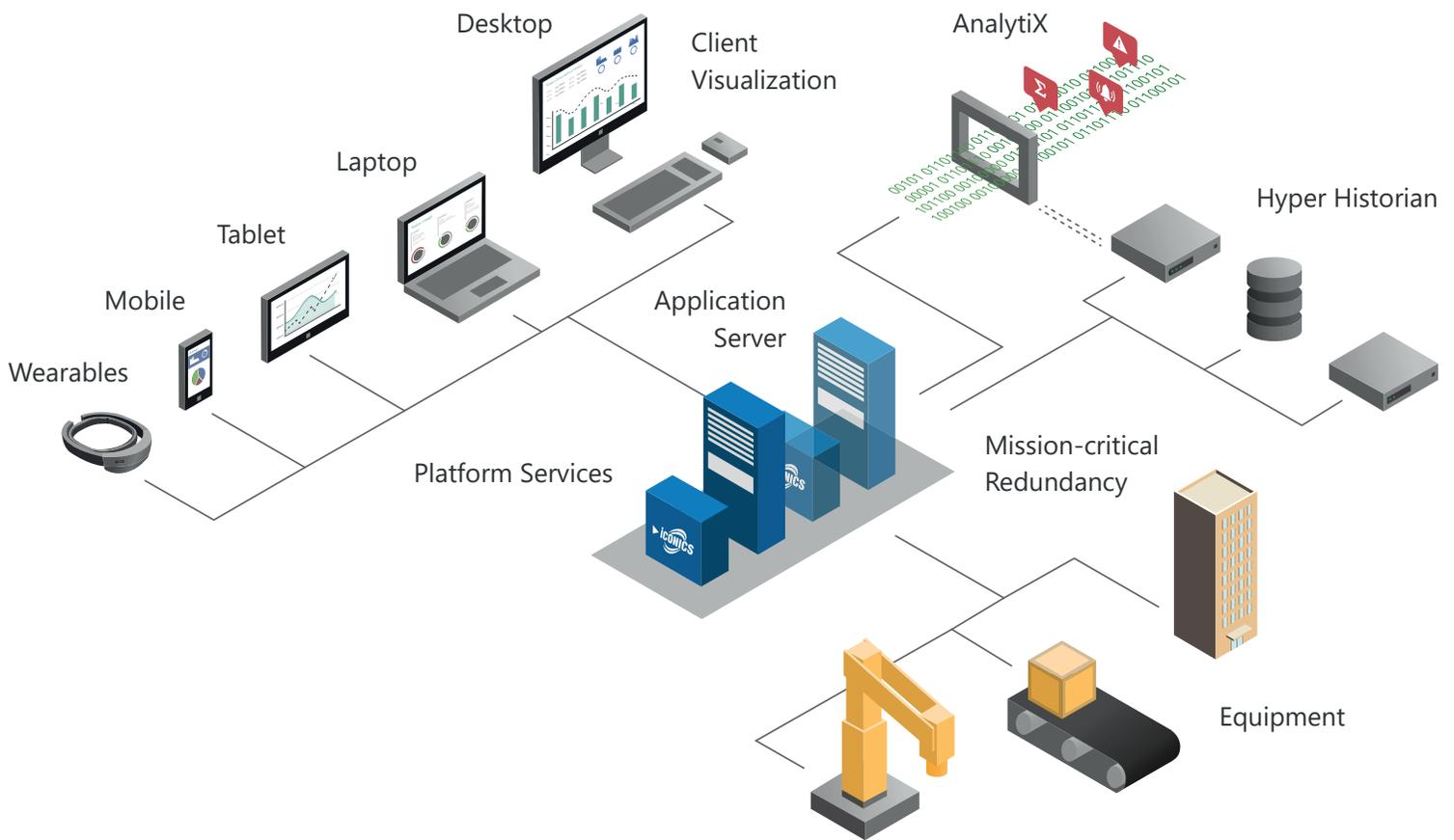
# ICONICS Cross-product Features



## Advanced Visualization on Any Device

Bring the visualization of ICONICS to any device. Migrate desktop displays created in GENESIS64 from desktop to any mobile client. MobileHMI™ is a powerful app that provides a consistent user experience on any mobile device for GENESIS64 dashboards. WebHMI™ brings the capabilities of GENESIS64 applications to any HTML5 or WPF compliant web browser. Generate executive self-service dashboards utilizing preconfigured symbols from any mobile device with KPIWorX™. GENESIS64's responsive UI flawlessly transitions between clients to provide a consistent user experience.

## Mission-critical Redundancy

ICONICS ensures the safety of any critical data by offering high availability redundancy for communication reliability. Redundant collectors and loggers serve as a backup in case of a system failure. With automatic fault detection and store-and-forward technology, GENESIS64 users can be assured that mission-critical real-time data, historical data, and alarm information are always available. ICONICS redundancy solutions are simple to configure, install, and deploy. ICONICS software redundancy covers all major aspects of data redundancy such as data access, historical data, alarms, and security.



*ICONICS Redundant Architecture*

Desktop

Client Visualization

AnalytiX

Hyper Historian

Laptop

Tablet

Mobile

Wearables

Application Server

Platform Services

Mission-critical Redundancy

Equipment

*ICONICS System Architecture*

## Powerful Centralized Configuration

ICONICS displays can be created using two powerful configuration tools. The Workbench is the multi-functional, centralized desktop or web-based environment for all back-end configurations making development more efficient and minimizing design time for any application. Offered in WPF, users can configure and manage their entire GENESIS64 application from anywhere.

Front-end user interfaces and dashboards are configured using the GraphWorX64 visualization module. Design HMI and SCADA displays leveraging 2D and 3D graphics, preconfigured symbols, dynamic properties, animation, and flexible aliasing.

## Universal Connectivity

GENESIS64 supports industry standard communications such as OPC, OPC UA, Modbus, BACnet, web services, and databases. As the first 64-bit Advanced Workstation (B-AWS), GENESIS64 is certified by the BACnet Testing Laboratories, ensuring maximum integration with BACnet protocols such as BACnet objects, trends, and alarms. GENESIS64 is certified for OPC UA compliance by the OPC Foundation. Simple device discovery on the network makes integration seamless and efficient.

# IoTWorX™

IoTWorX combines ICONICS' new IoT gateway 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 rich connectivity to things, secure cloud communications, and built-in real-time visualization and analytics. Connect to virtually any automation equipment through supported industry protocols such as BACnet, SNMP, Modbus, OPC UA, and classic OPC tunneling.
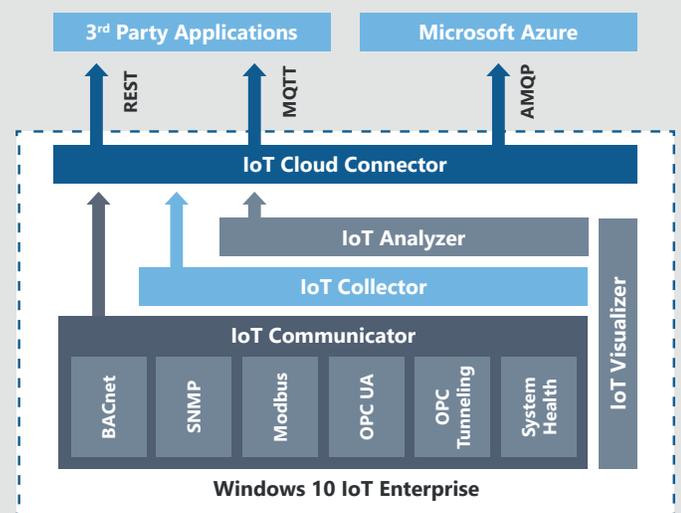
## IoTWorX Key Features

- Publish data securely to the cloud
- Visualize on any device, anywhere
- Remotely monitor and control assets
- Drill down into enterprise-wide KPIs
- Integrate with existing equipment
- Streamline user experience



## IoTWorX Features

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

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

- 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 Visualizer – Allows for on-premises visualization of IoTWorX data using ICONICS KPIWorX app. Download the app from the Apple, Google, or Microsoft Stores.

- IoT System Health – Provides built-in diagnostics dashboard of both IoTWorX software applications and IoT hardware device performance information.

ICONICS' IoT solution takes maximum advantage of the Azure cloud to provide global visibility, scalability, and reliability. 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.



Microsoft Azure

### ICONICS IoTWorX

BACnet • SNMP • OPC UA • Modbus

Buildings          Manufacturing