

ICONICS - TrendWorX64

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



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

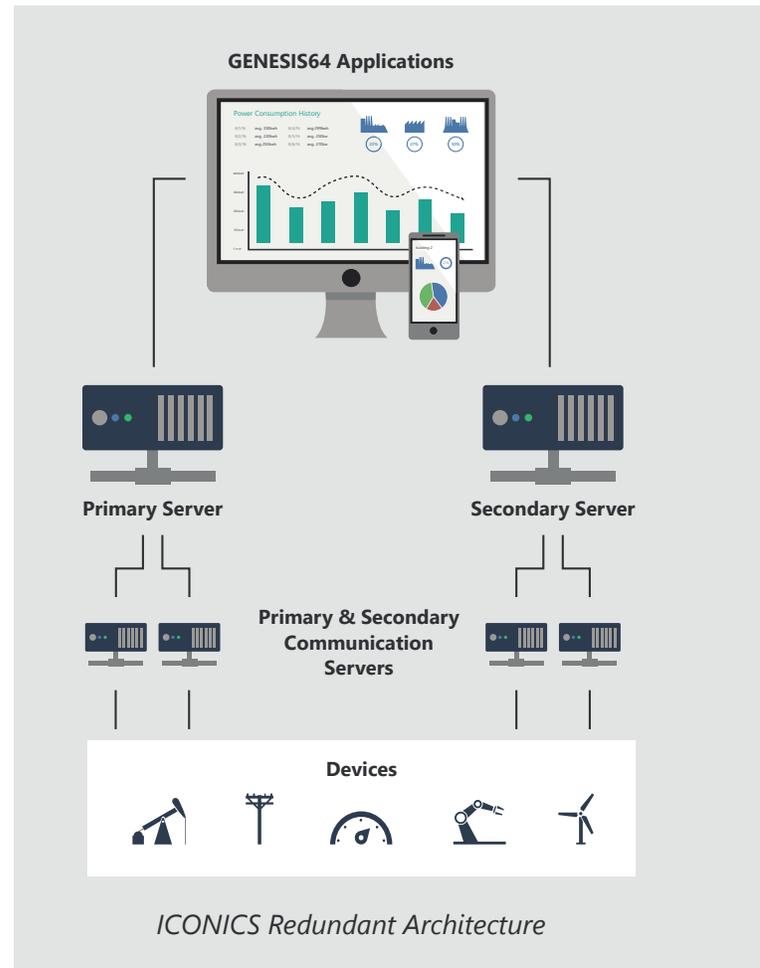


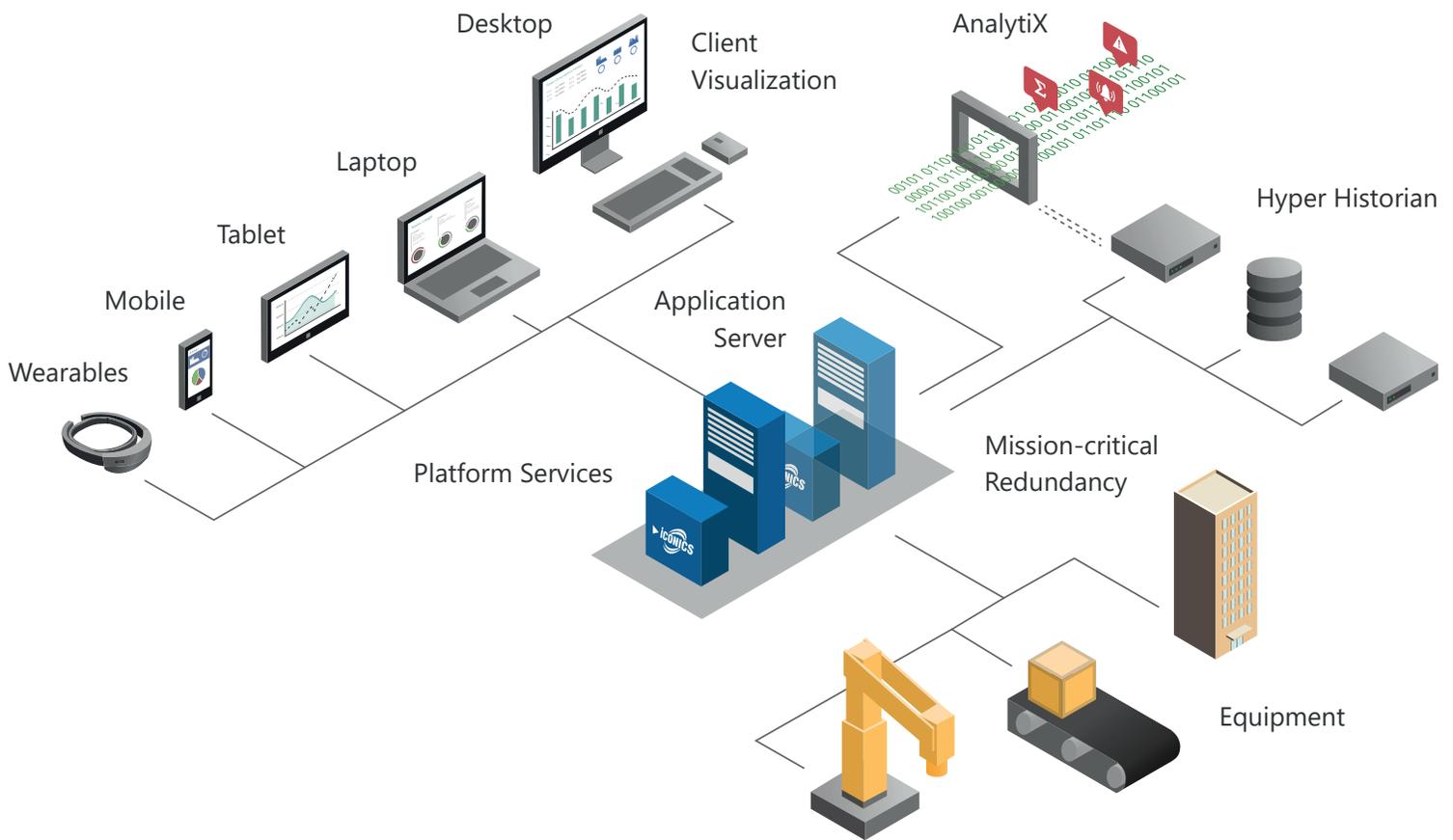
Advanced Visualization on Any Device

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 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.

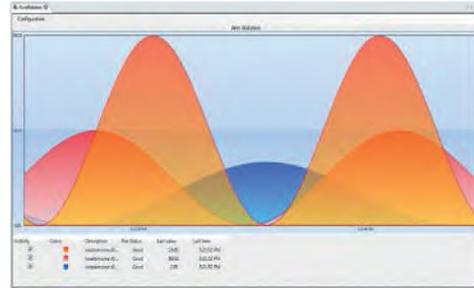
Front-end user interfaces and dashboards are configured using the GraphWorX64 visualization module. Design HMI and SCADA displays leveraging 2D and 3D graphics, preconfigured symbols, dynamic properties, animation, and flexible aliasing.

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.

TrendWorX64

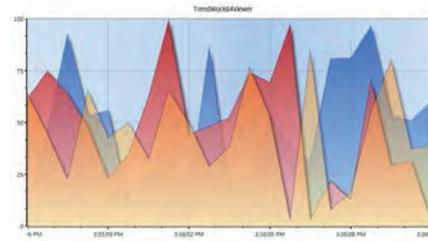
TrendWorX64 is an enterprise-wide data collection, logging, charting, reporting and analysis solution. Available in the standard GENESIS64 suite of application, or as a stand-alone Open Series component, TrendWorX64 offers the tools you need to trend and chart real-time and historical data from all your enterprise assets.



TrendWorX64 is OPC UA-to-the-Core™ and provides open connectivity to any OPC/OPC UA data source, making it an extremely versatile and comprehensive OPC trending application. This means it can easily plug and play with not only ICONICS servers and trend components, but with other 3rd-Party trending solutions, as well. Allow your operators to see what's happening in real-time or what's happened historically to give them true predictive ability.

Developer Benefits Include:

- **Rapid Customization of Trends, Pens and Plots** – via Galleries and one-click styling. TrendWorX64 is easy to use due to the task-centric user interface based on Ribbons.
- **Ability to Use Vector-based Instead of Raster-based Graphics** – due to interaction with Windows Presentation Foundation technology, which also helps to make trend graphics screen-size-independent and provides smooth animations
- **Allows for Concurrent Changes Via the Web** – with interactivity between remote online configuration sessions
- **Multiple Data Source Availability/Historical and Real-Time Data Simultaneously Accessible** – as data is collected through OPC UA technology



Operator Benefits Include:

- **Powerful Runtime Controls** – Operators can add more pens, freeze time and review past trends or change the range of the charts through the helpful Trend Period Toolbar.
- **Predictive Tools** – Use trending to your advantage with optional alarm lines to indicate when trends may go into alarm.
- **Time Changes in Real-Time** – See data change in real time visually and use time periods to give more or less detail.
- **Summary View** – View high level information first and drill down for details.
- **2D/3D Plots** – Operators can view data in 2D and 3D to customize trends for better understanding.
- **Contextual Details** – Users can hover to see details for each data point or trend.



GENESIS64

Product Introduction

GENESIS64™

October 2015

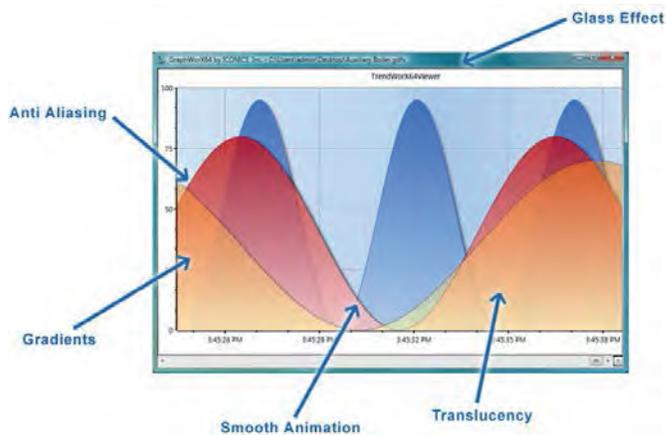
TrendWorX64 Configurator

Release the power of trending with TrendWorX64. Using GENESIS64 Workbench or GraphWorX64 to configure trends and charts is fast and easy with the TrendWorX64 Configurator. Integration with Windows Communication Foundation (WCF) allows users to build the most secure, reliable, transacted and interoperable distributed trending applications. Trends are fully customizable and intelligent allowing developers to give operators as much information as possible. Allow operators to predict faults and warnings by giving them a simple, easy to understand display.



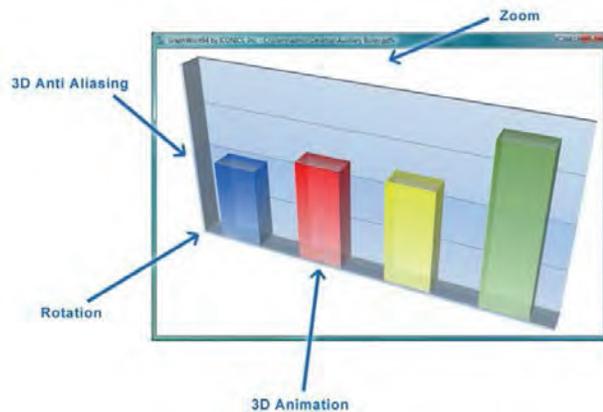
TrendWorX64 Viewer

Trend and chart data in the standard Time Based Chart or quickly choose any of the following from the styling gallery: X vs. Y, Logarithmic, Bar Graph, the popular Strip Chart Recorder, Circular Charts and more. The TrendWorX64 Viewer toolbar allows operators to change time periods, show or hide the legend, freeze time and look back at trends during runtime.



Use the intuitive ribbons and galleries to customize your trend or chart by adding color, gradients, smooth animation, translucency, glass effect, anti-aliasing and more. Drag and drop data sources during runtime, view multiple synchronized trends, change the period with the customizable Trend Period Toolbar or create and visualize different plot types on the same trend.

Plotting both real-time and historical data in the same trend plot allows you to compare last week's data, for instance, to current information. Trend production numbers against a target. Users can also plot batch data against a known recipe curve. Utilizing an "ideal" pen can also give further information on current versus normal operation.



TrendWorX64 Logger

GENESIS64

Product Introduction

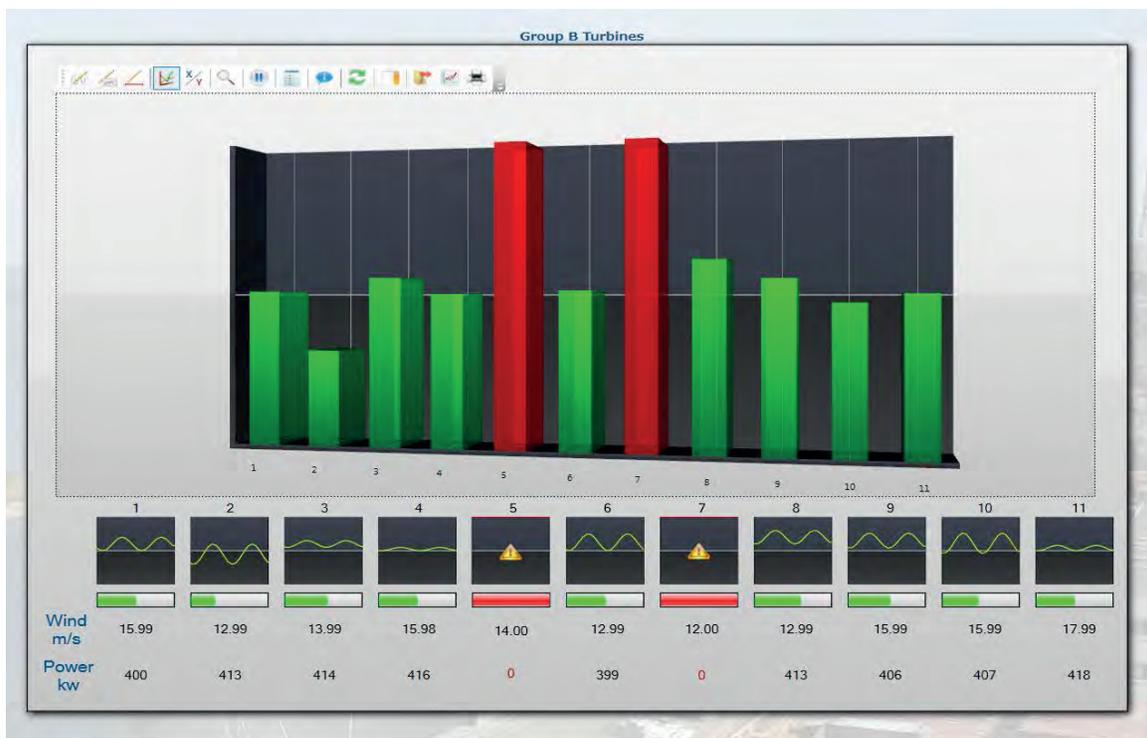
GENESIS64™

October 2015

Easily configure logging for your trends with the TrendWorX64 Logger. The TrendWorX64 Logger is a SQL Database logger recommended for up to 25,000 tags and can be connected to the TrendWorX64 Viewer as you would for OPC DA data. The data can easily be shown in displays and includes advanced Pen Aggregations for OPC HDA (Historical) data. Aggregations can be performed in runtime to generate trends for Totalizers, Averages, Minimums, Maximums and Ranges. Through OPC Quality monitoring, operators can get extra information on the percent of values that are good or bad quality.

Universal Connectivity

- OPC-DA
- OPC HDA
- GENESIS64 Hyper Historian
- Web Services
- TrendWorX32 Server
- TrendWorX64 Server
- OPC UA
- OPC UA HDA
- BACnet
- SNMP
- 3rd Party Databases/Plant Historians



Specifications

OPC Connectivity	
OPC UA	Client [DA, HDA]
OPC Classic	Client [DA, HDA]
TrendWorX64 Logger	
Logger Type	Database
Logger Configuration	Tag Based
Maximum Capacity	5,000 Tags (Recommended)
Support	
<i>Multiple Logging Groups</i>	Yes
<i>Multiple Database Groups</i>	Yes
<i>Store and Forward</i>	Yes
<i>Start/Stop Conditions</i>	Yes
<i>Database Table Management</i>	Yes
TrendWorX64 Viewer	
Extension	TWXX (WPF Format), TWXXS (Silverlight)
Data Type	Real-Time, Historical (DA, HDA)
Embeddable	Yes [GraphWorX64]
Number of Trends	Over 250 (< 25 Recommended for Readability)
Time & Rate	Trend Period, Summary Period, Data Collection Rate, Display Refresh Rate, History Refresh Rate,
Time & Date	UTC, Local
<i>Time Format</i>	None, Long, Short, Custom (h, H, m, s, t)
<i>Date Format</i>	None, Long, Short, Custom (M, d, y)
Plot Types	
<i>Line</i>	Time, Time Spline, Step Time, XY
<i>Area</i>	Time Area, Time Spline Area, Time Step Area
<i>Other</i>	Bar, Histogram, Circular, Pie, SPC Control Chart
Pen Types	
<i>Stroke</i>	Solid, Dashed, Dotted, Dotted-Dash, Custom
<i>Markers</i>	None, Circle, Square, Triangle
<i>Numeric Format</i>	Currency, Decimal, Exponential, Fixed-Point, General, Number, Percent, Hexadecimal
<i>Range</i>	Auto, Auto Scale, Fixed (Minimum, Maximum)
Support	
<i>Bad Quality Markers</i>	Yes
<i>Multi-Grid</i>	Yes
<i>Multi-Tab</i>	Yes
<i>Multi-Chart</i>	Yes
<i>Custom Styles</i>	Yes
<i>Freeze Trends</i>	Yes
<i>Alarm Lines</i>	Yes
<i>Ideal Pen</i>	Yes