ICONICS Collaborates with Advantech to Offer Integrated IoT Micro SCADA Solution at the Edge

Foxborough, Massachusetts – October 8, 2019 – ICONICS, a global automation software provider and six-time winner of the Microsoft Partner of the Year award and Advantech, a global leader in the fields of Internet of Things (IoT) intelligent systems and embedded platforms, have partnered together to deliver an advanced integrated IoT Micro SCADA solution at the edge. ICONICS IoTWorX™ 10.96 software suite for edge devices, is loaded onto Advantech's new generation of UNO-2000 and UNO-2300 series of embedded ruggedized automation computers, transforming the UNO series gateways into intelligent IoT gateways ideal for any industry to bridge the gap between on-premises communications networks and an Azure cloud-based deployment platform.

ICONICS IoTWorX 10.96 takes maximum advantage of Microsoft's Azure IoT Edge to bring advanced flexibility, security, and intelligence to any cloud application; made possible by utilizing Docker-compatible containers running ICONICS cloud services at the edge. Multiple modules ("containers") from multiple vendors can run together in an IoTWorX gateway, either in isolation or in a shared environment. IoTWorX 10.96 executes logic and analytics at the edge, transforming affordable edge devices into intelligent IoT gateways. It also aggregates disparate real-world signals with support for industry protocols such as OPC UA, BACnet, SNMP, Modbus, MQTT, and web services, and publishes that real-time data securely to the cloud via AMQP, MQTT, or REST transport protocols.

ICONICS Information Broker, also new in the 10.96 release, provides support for replication of point-to-point connectivity between individual systems. Based on MQTT and the Enterprise Service Bus architecture for data management and integration of applications, it uses a service-oriented architecture for the exchange of information between systems in a secure and scalable way, enabling enterprise application integration of services and applications.

Additionally, the IoTWorX gateway supports an internal RESTful interface to its real-time data, providing all gateway-hosted containers with direct access to the data collected by the gateway. Users can view this data securely at the edge, on-premises, or from any smart device.

Real-time edge analytics is possible using built-in fault rules and workflow technology to detect and buffer faults, then merging this information with ICONICS Facility AnalytiX® in the cloud. IoTWorX 10.96 also supports simple, easy-to-use device provisioning. Based on Microsoft's Device Provisioning Service and utilizing Trusted Platform Module (TPM) standard, minimal user interaction is needed, making it possible to provision thousands of devices in a secure and scalable manner across the enterprise. OEM custom containers can also be easily integrated into the IoTWorX 10.96 software platform.

"The latest version of ICONICS IoTWorX provides users access to the multiple benefits of cloud integration," said Russ Agrusa, CEO of ICONICS. "This includes intensive fault analytics, advanced visualization, support for additional operating systems, and other capabilities provided through the power of Microsoft Azure and other cloud platforms."

IoTWorX 10.96, combined with Advantech's embedded and industrial computing products, provides an end-to-end affordable IoT solution for any industrial or building automation application without sacrificing the hardened security and scalability often required by companies implementing IoT solutions. IoTWorX 10.96 supports both Windows and Linux OSs, providing flexibility in selecting the right Advantech hardware platform to be utilized as an edge device that will best fit a customer's IoT use case.

The following operating systems are currently being tested with IoTWorX 10.96:

- Windows 10 IoT Enterprise
- Ubuntu 18.04, 16.04 (AMD64)
- Raspbian Stretch (ARM32)
- Ubuntu Server 18.04, 16.04 (AMD64)

To learn more about the IoTWorX software suite, visit ICONICS online at iconics.com/IOT.

www.iconics.com

About Advantech
Advantech's corporate vision is to enable an intelligent planet. The company is a global leader in the fields of IoT intelligent systems and embedded platforms. To embrace the trends of IoT, big data, and artificial intelligence, Advantech promotes IoT hardware and software solutions with the Edge Intelligence WISE-PaaS core to assist business partners and clients in connecting their industrial chains. Advantech is also working with business partners to co-create business ecosystems that accelerate the goal of industrial intelligence. (www.advantech.com)

ICONICS Background Information

ICONICS, a longtime Microsoft Gold Partner and six-time Microsoft Partner of the Year award winner, including the Manufacturing, Application Development, and CityNext Partner of the Year, provides solutions to improve productivity, reduce integration time and operating costs, and optimize asset utilization with visualization and automation software. Founded in 1986, ICONICS has 350,000 installations in over 100 countries worldwide. ICONICS meets the demanding application challenges of the automotive, building automation, food and beverage, government infrastructure, manufacturing, petrochemical, pharmaceutical, renewable energy, utilities and water/wastewater industries. As a managed Microsoft ISV Partner, ICONICS designs its solutions to leverage Microsoft technologies, including Windows 10, Windows Server, Microsoft .NET, Microsoft Azure, SQL Server and Microsoft SharePoint.

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