Smarter technology for all

Certified Solution **Partners**

ICONICS IoTWorX™ -Edge Compute Solution for IoT



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Introduction

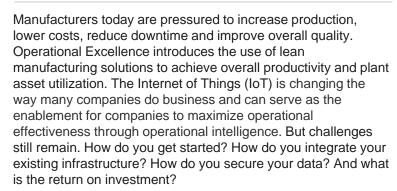




loT and Industry 4.0 represent the advent of connecting devices, or "things," with cloud-based systems to harvest hidden information faster than ever before, pushing processing closer to the edge, improving responsiveness, decreasing latency, supporting new operating models, driving business value by providing new services, and serving as the bridge between the two technologies of IT (Information Technology) and OT (Operational Technology). The value to organizations, line of business applications and customers may be attained in the form of cost reduction, new revenue streams, or an improved customer experience. Connectivity is key to achieving these business values.

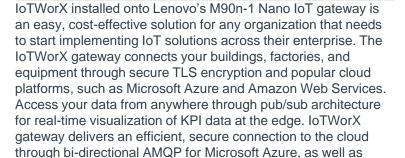
There's one device that is key to tying Internet of Things systems together: the IoT gateway. The importance of IoT gateways is understandable when you consider the explosion in connected "things" that has occurred over the past few years. With scores of protocols, connectivity models, energy profiles, high-end security requirements, and the highly dispersed nature of IoT systems, gateways are needed to aggregate, manage and control these complex environments. Since relatively few devices actually have the capability to connect to the Internet, achieving these benefits requires integration of IoW-cost IoT gateways into the IoT solution. The solution of ICONICS IoTWorX™ software suite combined with Lenovo's M90n-1 Nano IoT gateway, creating the IoTWorX gateway, achieves these benefits and more.

Challenges



Solution

ever.



MQTT, REST, and WebSockets for third party cloud providers.

With ICONICS in the cloud, your data is more intelligent than





The ICONICS and Lenovo partnership is driven by a common goal, enabling and helping customers embrace the internet of Things (IoT) to implement use cases, driving several operational effectiveness outcomes, including increased productivity, improved plant efficiency, asset uptime and quality, reduced operational risks, overhead costs and changeover times. ICONICS IoTWorX, installed onto Lenovo's M90n-1 Nano IoT gateway, provides the bridge between an on-premise communications network and a cloud-based communications network. The IoTWorX gateway offers several key IoT technologies, including rich connectivity to things (OPC, OPC UA, SNMP, Modbus, Ethernet I/P, MQTT Broker and Web Services), secure cloud communications (AMQP, MQTT, HTTPS), store and forward of collected data, and built-in real-time visualization and analytics. With simple setup and configuration, users can easily create remote monitoring and analytics solutions that meet their innovative business requirements for collaboration and shared insight across widely dispersed assets.

Through this working partnership, ICONICS and Lenovo provide a full-fledge edge computing platform for IoT applications for the energy, smart buildings and industrial automation markets, delivering ready-to-go communications infrastructure and reduced costs.

A Group Company of

