In the industrial automation world, business owners who follow the IIoT trend are able to optimize operational efficiency and maximize profits. In order to achieve this, one of the main goals that must be accomplished is to ensure reliable connectivity between operational technology (OT) and information technology (IT). Moxa offers comprehensive industrial edge-to-cloud connectivity solutions that accelerate convergence of the OT and IT worlds and allow you to make your IIoT dream a reality.

Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things. With over 30 years of industry experience, Moxa has connected more than 50 million devices worldwide and has a distribution and service network that reaches customers in more than 70 countries. Moxa delivers lasting business value by empowering industry with reliable networks and sincere service for industrial communications infrastructures.

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MOXA®
Reliable Networks ▲ Sincere Service

Accelerate OT and IT Integration with Industrial Edge-to-Cloud Solutions

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Rethink Connectivity for IIoT Solutions

Three Major Considerations When Developing Connectivity for the IIoT

Before the benefits of IIoT applications can be enjoyed, it is essential to understand how your current connectivity solution needs to evolve to ensure that your new connectivity solution is suitable for data communication in IIoT applications.

Make Your Data Actionable

How do you transfer data between OT and IT systems for IIoT applications?

Traditionally,
OT data only needed to be processed and located on SCADA systems.

Enabling IIoT applications
requires data to be transferred from multiple OT devices to IT-based cloud services.

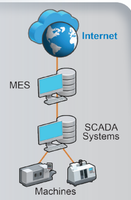
Considerations
- Data acquisition requires fieldbus connectivity and custom tag capabilities.
- Data processing requires programmability and a data logger.
- Data connectivity requires cloud connectivity and secure communication.

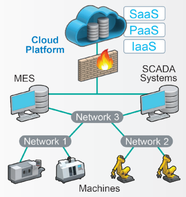
Moxa's Solution
To make your data actionable, it is essential to have a ready-to-run IIoT gateway to bridge OT and IT for data transmissions. Moxa's intelligent IIoT gateway solutions include our ThingsPro™ platform, which makes your data actionable through fast development, easy deployment, secure communication, and effortless maintenance.

Make Your Data Connected

How do you enable data connectivity from LAN to WAN for IIoT applications?

Traditionally,
data rarely had to travel from LAN to WAN and data flow was segmented.





Enabling IIoT applications
requires transmitting data in real-time from LAN to WAN and overcoming the increasing data transmission demands from the edge to the cloud.

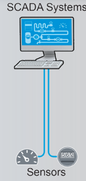
Considerations
- Time-sensitive IIoT applications require real-time transmission of data from system to system.
- Data transmitted from LAN to WAN can be vulnerable to hacking.

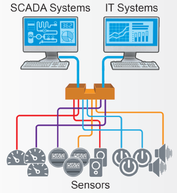
Moxa's Solution
Connecting data to your IIoT applications requires a secure network with high availability. Moxa provides industrial network infrastructure solutions that optimize your network connectivity for IIoT applications by ensuring maximum network uptime, edge-to-cloud network protection, and secure remote access.

Make Your Data Collectable

How do you collect data from multiple devices in IIoT applications?

Traditionally,
OT systems were relatively simple and were not required to connect multiple sensors and machines.



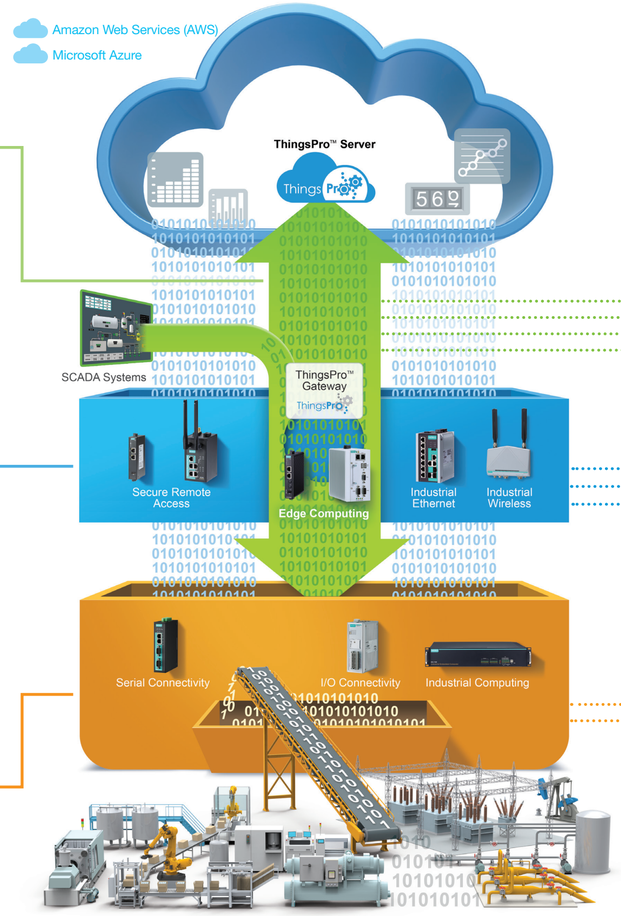


Enabling IIoT applications
requires collecting large amounts of data from numerous sensors and machines to get edge data ready for use.

Considerations
- Collecting data from multiple interfaces and protocols is complex.
- Collecting large amounts of data can reduce system performance.

Moxa's Solution
To collect data for IIoT applications, it is essential to have an easy-to-use and efficient solution. Moxa offers a variety of connectivity and computing solutions that make your data collectable through interoperability and efficient data processing in order to consolidate your edge connectivity for IIoT applications.

Accelerate OT and IT Integration with Moxa's Industrial Edge-to-Cloud Connectivity Solutions



Integrate from Edge to Cloud with IIoT Gateways

Effortless Maintenance
Our intelligent IIoT gateway solutions support remote device management and include 10 years of Linux Superior Long Term Support to reduce maintenance efforts.

Secure Communication
Our intelligent IIoT gateway solutions support OpenVPN client and API tokens to ensure communication from edge to cloud is secure. In addition, for device level security, our intelligent IIoT gateway solutions also support TPM 2.0.

Easy Deployment
Our intelligent IIoT gateway solutions feature ready-to-deploy hardware including serial, Ethernet, and cellular interfaces as well as an easy-to-use software that supports mass configuration to simplify deployment.

Fast Development
Our intelligent IIoT gateway solutions enable fast development with tag-based data acquisition from Modbus equipment to MQTT applications, built-in interfaces for cloud services, and ready-to-run API solutions.

Optimize Your Network Infrastructure

Secure Remote Access
Our multiple secure remote access solutions include cloud-based secure access, remote cellular management, and standard VPN solutions, ensuring your various secure remote access requirements are met.

Edge-to-Cloud Network Protection
Our industrial network infrastructure solutions include security embedded devices based on the IEC 62443 standard, multi-layer network protection, and security management in order to protect your network from the edge to the cloud.

Maximize Network Uptime
Our industrial network infrastructure solutions include high bandwidth, multiple network redundancy technologies, and network management tools that simply deployment to ensure network uptime is maximized.

Consolidate Your Edge Connectivity

Data Processing Efficiency
Our serial and I/O connectivity solutions are able to process data efficiently with proprietary technologies without having to perform additional programming. Our high port density computing platforms with high CPU performance are able to collect and process large amounts of raw data efficiently.

Interoperability Simplified
Our serial and I/O connectivity solutions support multiple interfaces to integrate sensors and machines into Ethernet-based IP networks. Our solutions simplify OT-to-OT and OT-to-IT protocol conversion and unify data communication for the IIoT.