# IoT Gateway

SKU: KWP-IOTGW1-PRD (1-500 Tags)

SKU: KWP-IOTGW2-PRD (501-5000 Tags)

SKU: KWP-IOTGW0-PRD (5001+ Tags)

Product Overview

Lead the charge on the Industrial Internet of Things (IIoT) at your organization with the IoT Gateway for KEPServerEX. It connects Operations with Information Technology (IT), enabling visibility across the enterprise. The IoT Gateway leverages the 150+ communications drivers within KEPServerEX to seamlessly stream real-time industrial control data directly into Big Data and analytic software applications for Business Intelligence and Operational Excellence.
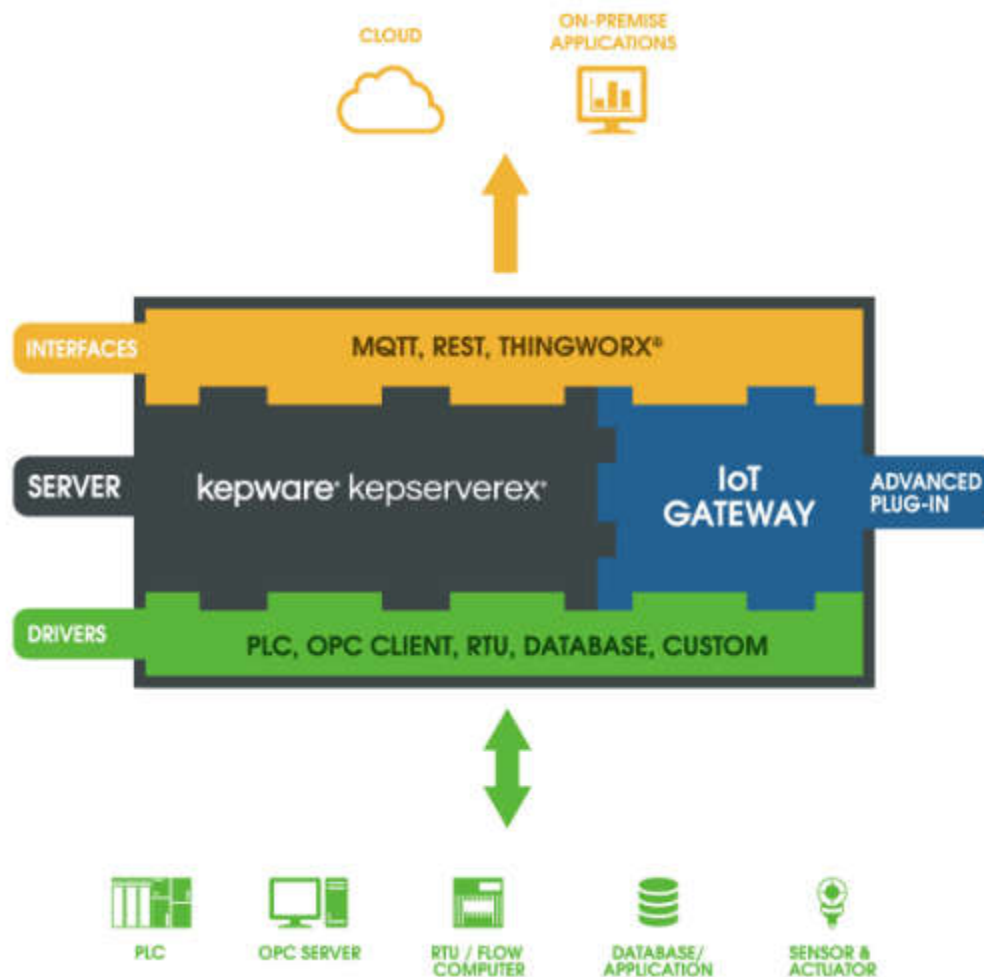
Enterprise and cloud-based solutions enable organizations to search, monitor, analyze, and visualize KEPServerEX-generated data coming from PACs, PLCs, RTUs, flow computers, OPC servers, and other industrial hardware and software. Kepware has partnered with Big Data and analytics providers to enable insight into the operations and conditions of industrial devices and systems.

- Measurement, Verification, and Constant Commissioning: Ensure that devices in the field operate as intended.
- Capacity Planning: Monitor data for risk of unplanned device or system downtime.

- Root-Cause Analysis and Remote Troubleshooting: Gain a better understanding of the cause of a particular failure on a particular device and improve efficiency.
- Anomaly and Outlier Detection: Identify outliers that may be an early indicator of issues in device production or deployment.
- Safety, Security, and Compliance: Gain visibility into system performance or set points that could put machines or people at risk, and quickly develop and access reports for compliance purposes.
- Cybersecurity: Improve security posture across industrial systems to mitigate emerging cybersecurity threats.

Features
- Streams real-time data from KEPServerEX into Big Data and analytic software applications
- Enables data collection from thousands of industrial sensors and machines, including PLCs, RTUs, PACs, DAQs, controllers, and many more
- Provides four agents, including ThingWorx, MQTT, RESTful Server, and RESTful Client
- Features Advanced Payload Configuration to support most applications
- Supports deadband to limit data throughput
- Supports tag import and export for quick project configuration and deployment
- Supports multiple application connections simultaneously
- Supports Array Writes
- Supports MQTT Writes
- Supports Cross Origin Resource Sharing (CORS)

Protocols
- MQTT Client
- RESTful Web Services Client
- RESTful Web Services Server
- ThingWorx® AlwaysOn™

ADDITIONAL TECH INFO

COMMON FEATURES
- Offers customizable JSON data format to support most MQTT and REST applications
- Supports deadband to limit data throughput
- Supports tag import and export for quick project configuration and deployment
- Has a configurable Publish Rate
- Has a configurable data package size for single transactions

MQTT CLIENT AGENT FEATURES
- MQTT Client Security, including authorization and access
- Supports Secure Socket Layer (SSL)
- Supports MQTT Last Will and Testament for notification of unexpected connection failures
- Supports Configurable Quality of Service (QoS) attempts

REST CLIENT AGENT FEATURES
- Supports Post and Put publish methods
- Supports a configurable HTTP Header
- Supports REST Client Authentication

REST SERVER AGENT FEATURES
- Supports Browse, Read, and Write commands
- Supports Secure Socket Layer (SSL)