

OPGateway

OPC/MQTT Industrial Communication Software OPGateway

■ Product Function

OPGateway is an OPC data communication software designed to ensure secure and reliable data exchange between multiple OPC servers. It not only transmits real-time industrial data to enterprise device clouds, big data analytics platforms, and databases, but also seamlessly integrates with KEPServerEX, offering expanded protocol support and enhanced data connectivity.

■ Use Case



■ Technical Specification

IT and OT Integration:

Supports MQTT protocol, allowing OPC Server data to be transmitted to the device cloud and big data analysis platforms.

MQTT Protocol:

- Version supported: V3.1, V3.1.1, V5.0.
- Based on the JSON data format, users can flexibly customize the message content.

Link Function:

Enables data exchange between OPC Servers.

Efficient Operation:

Supports multi-threading, with a maximum of 20,000 data points uploaded per second.

Configuration Independence:

Configuration changes do not affect system operation, ensuring system stability.

Flexible Link Group Management:

Supports custom link groups and the ability to adjust OPC server data transmission speed.

Intelligent Data Transmission:

Start/stop tags as needed, optimizing control logic to reduce network traffic.

Wide Device Compatibility:

Integrated with KEPServerEX, supporting data collection from PLC, RTU, PAC, and other devices.

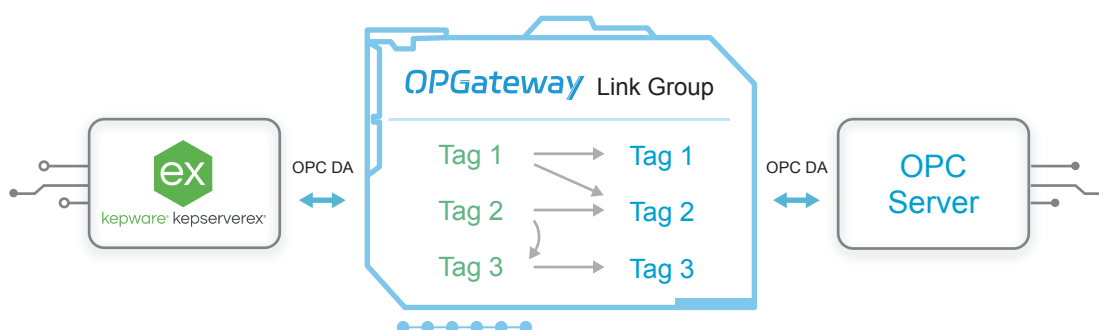
■ Supported Interfaces

- OPC DA 1.0 / OPC DA 2.0 / OPC DA 3.0
- MQTT 3.1 / MQTT 3.1.1 / MQTT 5.0

■ Typical Functions

→ OPC Tag Linking

OPGateway provides tag linking functionality for a single OPC server or multiple local OPC servers, enabling data transmission between tags across multiple OPC servers. Users can also add multiple Link Groups and configure link items. Additionally, OPGateway's drag-and-drop editing and tag browsing methods make batch adding tags quick and convenient.



→ MQTT Client

- Supports MQTT 3.1 and MQTT 3.1.1, including publish and subscribe
- Supports advanced message formats to meet various data modeling requirements, such as JSON and custom models
- Supports MQTT security and data integrity features, including TLS/SSL, authentication via username/password.
- Supports two output modes: change of value and cycle.
- Supports bidirectional authentication.
- Supports automatic reconnection upon MQTT connection failure.

■ Supported Operating Systems

- Windows 11
- Windows 10
- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2 & 2012