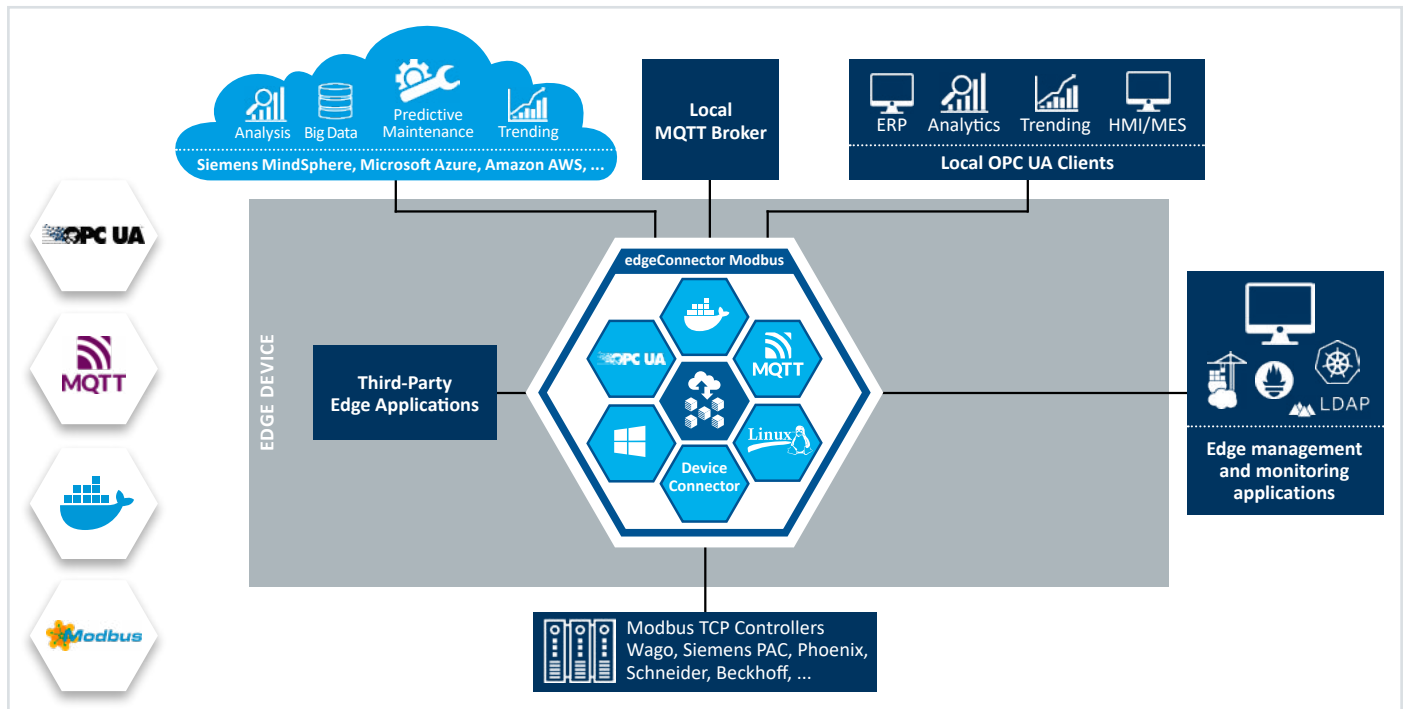# edgeConnector Modbus

Software for Connecting Modbus TCP Controllers with IIoT Applications

- **Easy access to data from Modbus TCP controllers via OPC UA and MQTT**
- **Deployment and configuration via management systems, e.g. Azure IoT Edge or AWS IoT Greengrass**
- **Local configuration via web interface or remote configuration via REST API**

Access to data in Modbus controllers by OPC UA clients

- Access to Modbus controls, e.g. from Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.
- Integration of higher-level management systems such as ERP, MES or process visualization via integrated OPC UA server
- Standardized OPC UA communication for data integration or for data exchange with other docker containers like Microsoft OPC Publisher or Amazon AWS IoT SiteWise
- Suitable for retrofit upgrades of existing systems, thus protecting previous investments
- Namespace configuration using a text file created by the user with standard Modbus syntax
- Creation of up to 20 Modbus-TCP connections with a container runtime

Easy cloud-driven or local deployment

- Container images stored in different online repositories like Docker Hub, Azure Container Registry (ACR) or Amazon Elastic Container Registry (ECR)
- Simple data transmission to an MQTT broker using the MQTT publisher functionality for local or cloud-based solutions
- Recipe manager functionality for writing process data from the cloud to controllers (MQTT Subscriber)
- Licensing via Softing Floating License Server

Lightweight Flexible Container Solution

- Less resources plus increased scalability and flexibility
- Support of security standards as SSL/TLS, X.509 certificates, authentication and data encryption
- Highly flexible state-of-the-art application to be started or stopped immediately, if needed
- Deployment and configuration also via management systems such as Kubernetes, Azure IoT Edge or AWS IoT Greengrass

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Technical Data

Supported Controllers	Modbus TCP-compatible controllers (Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.)
Supported Protocols	▪ OPC UA, MQTT ▪ Modbus TCP
Supported MQTT Specifications	V3.1, V3.1.1 & V5
Supported MQTT Features	▪ MQTT Publisher & Subscriber ▪ TCP, TLS/SSL, WS, WSS, (including certificates) ▪ QoS, Retain, LastWill & Testament ▪ Store & Forward
Supported OPC Specifications	OPC Unified Architecture V1.04
OPC UA Roles	OPC UA Server
OPC UA Profiles	Data Access
OPC UA Security	Security methods: Aes256Sha256-RsaPss, Aes128SHA256-RsaOaep, Basic256Sha256, Basic256, Basic128Rsa15, None Authentication: Anonymous, Username and Password, Certificate
OPC Compliance	Test based on compliance test tools of OPC Foundation
Configuration Interface Authentication	▪ Username / Password ▪ LDAP/LDAPS
Logging, Diagnostics	▪ Built-in trace and audit logging facilities, configurable and accessible through the web interface ▪ Docker integrated trace logging ▪ Prometheus Metrics Information
Supported Operating Systems	Linux (Docker Engine), Windows 10 und Windows 11 (Docker Desktop), Windows Server 2019 und Windows Server 2022 (Docker Enterprise Edition)
Supported Architectures	AMD64, ARM64, ARM32
Supported Container Orchestration Systems	Kubernetes (K8s), Amazon ECS
Minimum Hardware Requirements	320 MB free disk space, 2 GB RAM
Licensing	Licensed via Softing Floating License Server
Demo Version	20 PLC connections timed at 72 hours
REST-API	Access using the edgeConfigurator, download via Docker Hub

Scope of Delivery

Software	dataFEED edgeConnector Modbus, download via Docker Hub or Azure Marketplace
License Key	E-mail delivery
Documentation	Online help (German / English) and online: www.github.com/SoftingIndustrial/datafeed-edge-connector

Order Numbers

LRA-XX-151001	edgeConnector – Basic License (1 Connection)*
LRA-XX-151005	edgeConnector – Basic License (5 Connections)*
LRA-XX-151010	edgeConnector – Basic License (10 Connections)*
LRA-XX-151020	edgeConnector – Basic License (20 Connections)*
LRA-XX-151055	edgeConnector – Basic License (ADD 5 Connections)*
SOFTWARE UPGRADES	
LMA-XX-151001	edgeConnector – 1 Year Software Upgrades for Basic License (1 Connection)
LMA-XX-151005	edgeConnector – 1 Year Software Upgrades for Basic License (5 Connections)
LMA-XX-151010	edgeConnector – 1 Year Software Upgrades for Basic License (10 Connections)
LMA-XX-151020	edgeConnector – 1 Year Software Upgrades for Basic License (20 Connections)
LMA-XX-151055	edgeConnector – 1 Year Software Upgrades for Basic License (ADD 5 Connections)

*edgeConnector Licenses already include their respective 1 Year Software Upgrade license (LMA-XX-)

Additional Products and Services

LRA-XX-155100	edgeAggregator – OPC UA Connection 100, license for hundred (100) OPC UA Server connections.

Your local Softing contact:

https://industrial.softing.com

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