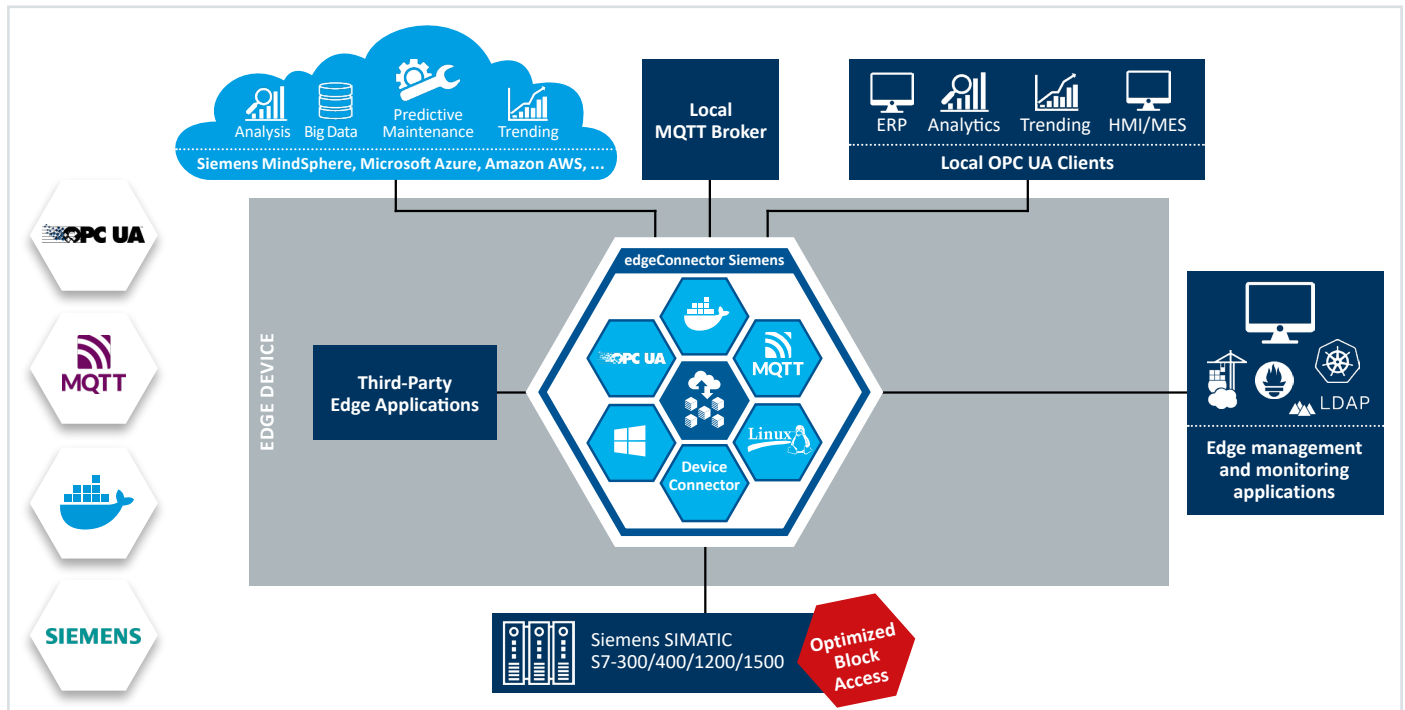


edgeConnector Siemens

Software for Connecting SIMATIC S7 PLCs with IoT Applications

- Easy Access to Data from SIMATIC S7-300/400/1200/1500 Controllers via OPC UA & MQTT
- Enable and Disable TLS Support from GUI for S7-1200/1500
- Deployment, via Docker Management Systems e.g. Azure IoT Edge or AWS IoT Greengrass
- Local Configuration via Web Interface or Remote Configuration via REST API



Access to Siemens PLC Data from OPC UA Applications

- Access to SIMATIC S7-300/400/1200/1500 data
- Support of optimized data blocks in SIMATIC S7-1200/1500 controllers
- Support of S7-300/-400 Arrays
- Access to certificate protected TLS PLCs S7-1200/1500
- Namespace configuration by importing SIMATIC STEP7 or TIA Portal project files or by direct browsing the variables in S7-1200/1500 controllers
- Standardized OPC UA communication for data integration into management systems like ERP, MES or SCADA or for data exchange with other docker containers like Microsoft OPC Publisher or Amazon AWS IoT SiteWise
- Connection of up to 20 Siemens PLCs with one Container Runtime
- Dedicated for retrofit upgrades of existing Siemens controllers

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 deployed, adjusted, or started and 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	Siemens SIMATIC S7-300/400/1200/1500 (including optimized data block access)
Supported Protocols	▪ OPC UA, MQTT ▪ SIMATIC S7 , RFC1006
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	edgeConnector Siemens, 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

LRL-XX-161001	edgeConnection – Perpetual License*
LMA-XX-161001	edgeConnection –Software Upgrade License

*edgeConnection License already includes 1 Year Software Upgrade license (LMA-XX-161001)

Additional Products and Services

	edgeAggregator
GPA-CS-041000	NETLink S7-Compact (for S7-300/S7-400 without CP or Ethernet connection)

Your local Softing contact:

<https://industrial.softing.com>

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