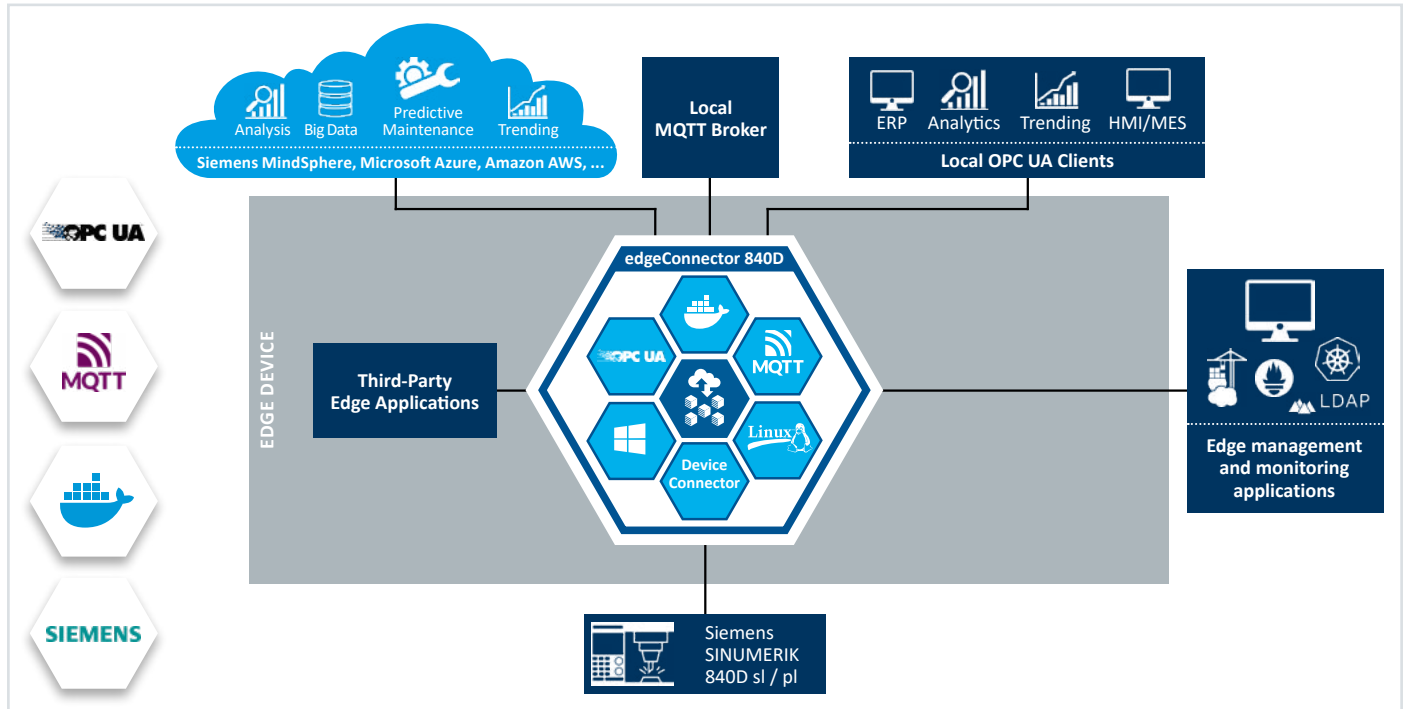


# edgeConnector 840D



Software for Connecting SINUMERIK 840D Controllers with IoT Applications

- Easy Access to Data from SINUMERIK 840D Solution Line and Power Line Tooling Machines via OPC UA & MQTT
- 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



## Accessing Tooling Machine Data from OPC UA Applications

- Provision of SINUMERIK 840D Solution Line and Power Line data
- Pre-defined namespace, customizable for special machine data sets
- Automatic tool recognition and listing of all available magazines and tools
- 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 SINUMERIK 840D controllers with one Container Runtime
- Dedicated for retrofit upgrades of existing SINUMERIK 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 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	<ul style="list-style-type: none"><li>Siemens SINUMERIK 840D Solution Line, software version V2.7 and higher</li><li>Siemens SINUMERIK 840D Power Line, software version V5.3 and higher</li></ul>
Supported Protocols	<ul style="list-style-type: none"><li>OPC UA, MQTT</li><li>SIMATIC S7 (RFC1006), SINUMERIK (RFC1006)</li></ul>
Supported MQTT Specifications	V3.1, V3.1.1 & V5
Supported MQTT Features	<ul style="list-style-type: none"><li>MQTT Publisher &amp; Subscriber</li><li>TCP, TLS/SSL, WS, WSS, (including certificates)</li><li>QoS, Retain, LastWill &amp; Testament</li><li>Store &amp; Forward</li></ul>
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	<ul style="list-style-type: none"><li>Username / Password</li><li>LDAP/LDAPS</li></ul>
Logging, Diagnostics	<ul style="list-style-type: none"><li>Built-in trace and audit logging facilities, configurable and accessible through the web interface</li><li>Docker integrated trace logging</li><li>Prometheus Metrics Information</li></ul>
Supported Operating Systems	Linux (Docker Engine), Windows 10 and Windows 11 (Docker Desktop), Windows Server 2019 and 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 <a href="#">Docker Hub</a>

## Scope of Delivery

Software	edgeConnector 840D, download via <a href="#">Docker Hub</a> or <a href="#">Azure Marketplace</a>
License Key	E-mail delivery
Documentation	Online help (German / English) and online at: <a href="https://github.com/SoftingIndustrial/datafeed-edge-connector">https://github.com/SoftingIndustrial/datafeed-edge-connector</a>

## Order Numbers

LRA-XX-153001	edgeConnector – Premium License (1 Connection)*
LRA-XX-153005	edgeConnector – Premium License (5 Connections)*
LRA-XX-153010	edgeConnector – Premium License (10 Connections)*
LRA-XX-153020	edgeConnector – Premium License (20 Connections)*
LRA-XX-153055	edgeConnector – Premium License (ADD 5 Connections)*

## SOFTWARE UPGRADES

LMA-XX-153001	edgeConnector – 1 Year Software Upgrades for Premium License (1 Connection)
LMA-XX-153005	edgeConnector – 1 Year Software Upgrades for Premium License (5 Connections)
LMA-XX-153010	edgeConnector – 1 Year Software Upgrades for Premium License (10 Connections)
LMA-XX-153020	edgeConnector – 1 Year Software Upgrades for Premium License (20 Connections)
LMA-XX-153055	edgeConnector – 1 Year Software Upgrades for Premium License (ADD 5 Connections)

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

## Additional Products and Services

LRA-XX-155100	<a href="#">edgeAggregator</a> – OPC UA Connection 100, license for hundred (100) OPC UA Server connections.
GPA-CS-041000	NETLink S7-Compact (for S7-300/S7-400 without CP or Ethernet connection)
6FC5851-1XC45-4YA8	SINUMERIK 840D SL CNC software and SINUMERIK Operate, toolbox including NCVar Selector (please order directly from Siemens)

Your local Softing contact:

<https://industrial.softing.com>

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