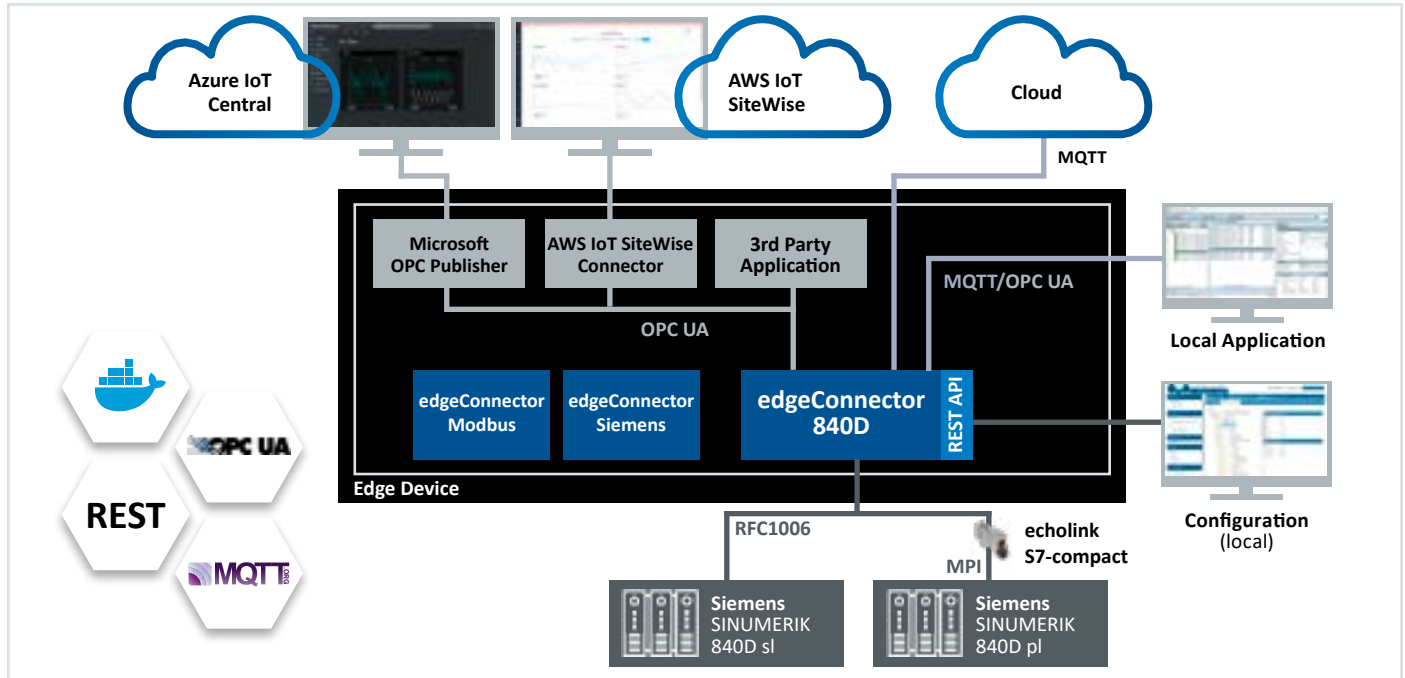


edgeConnector 840D

Software for Connecting SINUMERIK 840D Controllers with IoT Applications

- Data Access from SINUMERIK 840D Solution Line and Power Line Tooling Machines
- 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 5 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 Licence 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

dataFEED edgeConnector 840D

Technical Data

Supported Controllers	Siemens SINUMERIK 840D Solution Line, software version V2.7 and higher Siemens SINUMERIK 840D Power Line, software version V5.3 and higher (others on request)
Supported Protocols	SIMATIC S7 (RFC1006), SINUMERIK, OPC UA, MQTT
Supported MQTT Features	MQTT Publisher & Subscriber V3.1.1 & V3.1, TCP, SSL, WS, WSS, (including certificates), QoS, Retain, LastWill & Testament
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
Logging, Diagnostics	Built-in trace and audit logging facilities, configurable and accessible through the web interface Docker integrated trace logging
Supported Operating Systems	Linux (Docker Engine), Windows 10 (Docker Desktop), Windows 2019 Server (Docker Enterprise Edition)
Supported Architectures	AMD64
Minimum Hardware Requirements	275 MB free disk space, 2 GB RAM
Licensing	Licensed via Softing Floating License Server
Demo Version	100 tags useable, time limited to 72 hours

Scope of Delivery

Software	dataFEED edgeConnector 840D, 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-142100	dataFEED edgeConnector edgeData 100 (license for 100 data items)
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Additional Products and Services

LRL-DY-140004	dataFEED Secure Integration Server, single seat license for up to 100 OPC UA connections, including maintenance and support contract for 1 year
GPL-CS-191000	echolink S7-compact (PROFIBUS/MPI adapter for communication with SINUMERIK 840D pl)
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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