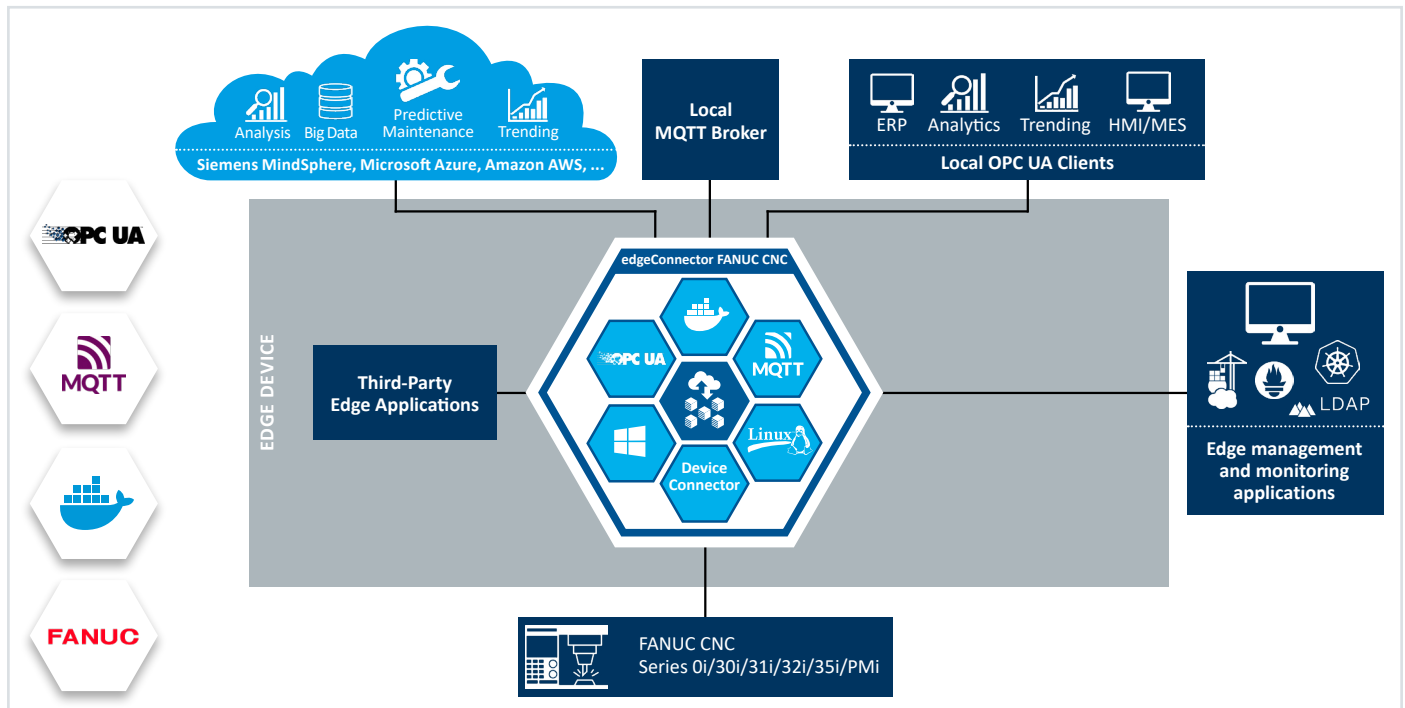


# edgeConnector FANUC CNC

Software module to connect FANUC CNC controllers to Industrial IoT applications

- Easy Access to Data from FANUC CNCs 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 FANUC Oi-, 30-i, and PM-i CNC Series data
- Pre-defined namespace, customizable for user defined PMC areas
- 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 FANUC CNC controllers with one Container Runtime
- No change at the CNC program needed

## 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

# edgeConnector FANUC CNC

## Technical Data

Supported Controllers	<ul style="list-style-type: none"><li>FANUC Series 30i, 31i, 31i-B, 31i-B5, 32i-B, 35i-B</li><li>FANUC 0i-D, 0i-F, 0i-F Plus</li><li>FANUC Power Motion i-A</li><li>FANUC NCGuide (Simulator)</li></ul>
Supported Protocols	<ul style="list-style-type: none"><li>OPC UA, MQTT</li><li>FOCAS (Ethernet)</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 und Windows 11 (Docker Desktop), Windows Server 2019 und Windows Server 2022 (Docker Enterprise Edition)
Supported Architectures	AMD64, 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 controller connections timed at 72 hours
REST-API	Access using the edgeConfigurator, download via <a href="#">Docker Hub</a>

## Scope of Delivery

Software	edgeConnector FANUC CNC, 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

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

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

## Additional Products and Services

[edgeAggregator](#)

FANUC LADDER-III, optional software to export PMC variables addresses from the CNC to a text file (please order directly from FANUC)

Your local Softing contact:

<https://industrial.softing.com>

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