

COLIGO lite - the lean edge AIoT solution for simple and efficient digitalization of industrial processes.

Release 22.03.2025

Scope

COLIGO Lite is a no-code AI solution for edge computing, enabling automation engineers to run AI models for their acquired data. It supports out-of-the-box MQTT connectivity, allowing real-time data acquisition and runs AI models for anomaly detection and time series forecasting while ensuring data security on the edge. Training and inference are performed locally, ensuring that no data is sent out of the field, maintaining both privacy and security. It is hardware-independent, scalable with Docker deployment, and integrates seamlessly with existing software ecosystems.

Functionality

- Out-of-the-box MQTT connectivity to data sources, secured with TLS
- View model outputs directly on UI graphs or subscribe to MQTT messages
- Run AI models on the collected data using no-code AI solution
- Deploy instantly from supported marketplaces
- Connect to any number of data sources at any time
- Run simultaneous AI models with multiple subscriptions from different brokers
- Supported AI models
 - Anomaly detection using CNN-Autoencoder
 - Forecasting with ARIMA

Target Applications

- Factory Automation
- Energy Sectors
- Process Automation
- Smart Cities and Buildings
- Transportation and Logistics

Distribution

- flecs.tech
 - Product page: <https://flecs.tech/marketplace/product/coligo-lite/>
 - Follow the documentation on <https://docs.flecs.tech/product-docs> and install it from the Flecs Client App on the device
- Order through our marketplaces below

Dependencies

- Docker Engine
- Network access to MQTT broker
- Linux/arm64, Linux/amd64 compatible CPU
- Required storage: 1.0 GB on amd64

Delivery includes

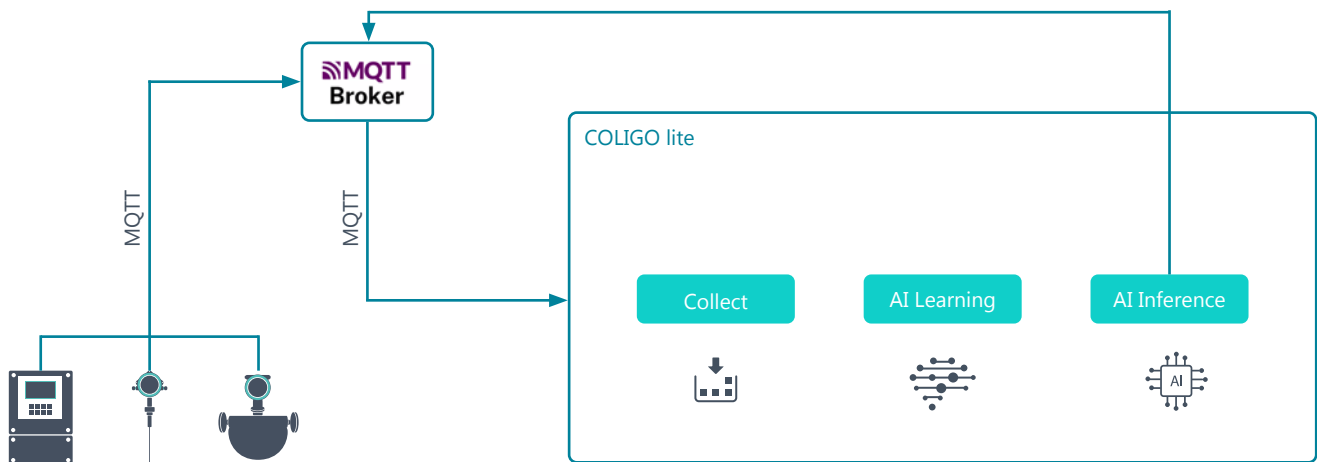
- COLIGO Lite Docker image
- One time License Key
- User Documentation <https://docs.coligo.ai/>

Licensing

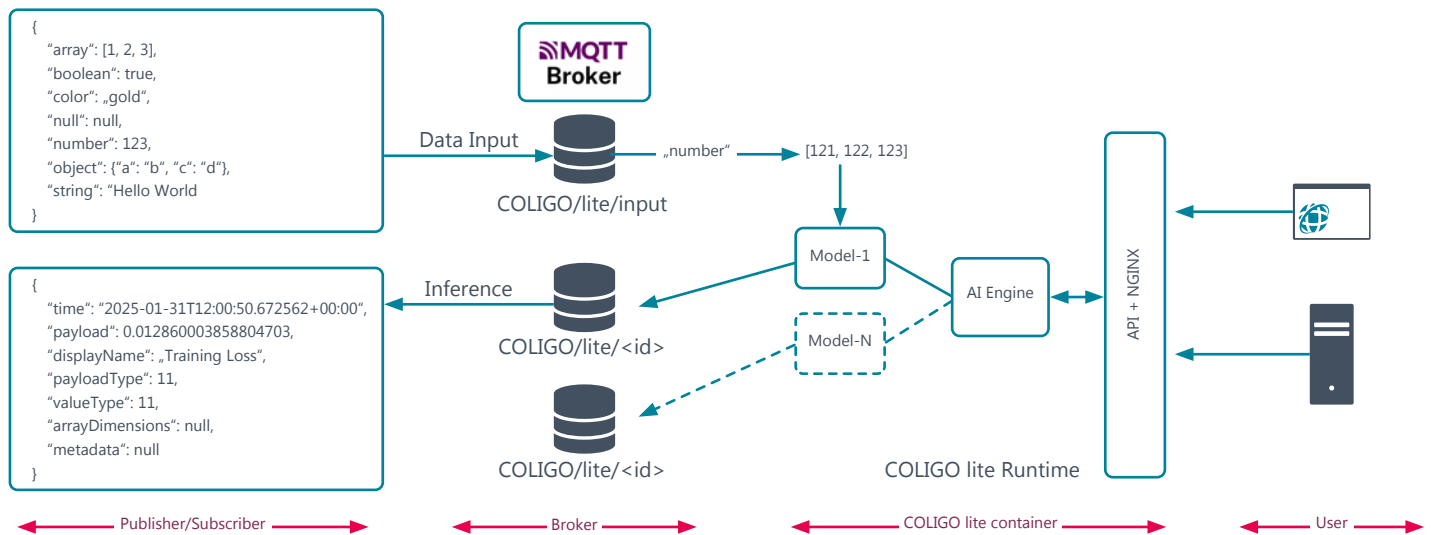
- Time-limited free trial license
- Lifetime license key, contact sales@coligo.ai to order



High Level Architecture:



Detailed Architecture:



App screenshots:



Fig: Secure connection to the broker



Fig: Adding the JSON path to the variable to be collected



Fig: Learning in progress for the acquired data until the inference score converges to zero



Fig: Inference mode

Contact

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