


Real-Time Machine Data Kit

Edge computing starter kit for accessing and using machine data



Key Benefits

- ✓ Plug and play introduction to edge computing features
- ✓ Access and use real-time data from your machine
- ✓ Start with default control applications then develop and deploy your own
- ✓ Extend the kit functionality by adding your own sensors and actuators
- ✓ Part of Intel's 'Request-for Proposal-Ready Kit' program

TTTech's Real-Time Machine Data Kit is an edge computing starter kit that provides access to real-time data as well as enabling users to update control applications remotely. The kit is designed to solve the challenge of accessing real-time data from industrial machines without altering existing I/O infrastructure or adding gateway devices.

Key Features

System Manager

- Store CODESYS PLC applications in the repository
- Deploy CODESYS PLC applications from the System Manager to the MFN 100
- Customizable dashboard for visualization of machine data

Soft PLC

- CODESYS integrated on the MFN 100 for execution of real-time control tasks
- Real-time data via Ethernet-based fieldbus protocols
- Write new CODESYS PLC applications
- Exchange data with the internal databus

Plug and Play Applications

- 2 default CODESYS applications pre-installed for demo purposes
- Pre-engineered datapath for sending data to the System Manager
- 7 digital I/Os free for adding further functionality with newly developed CODESYS applications

Local Management

- User interface for exchanging PLC programs on the MFN 100
- Upload CODESYS PLC applications to the repository in the System Manager



Application Fields

- Factory Automation
- Process Automation

Hardware Specifications

CPU (MFN 100)	Intel E3940 4 cores, 4GB RAM
Storage (MFN 100)	64GB SSD MLC
Interfaces (MFN 100)	1 x 1000 Mbit/s SFP 4 x 100/1000 Mbit/s RJ45 2 x USB 2.0 1 x Display Port
Interfaces (ET200 IO)	1 x SIMATIC ET 200SP 8x24V DC digital input 1 x SIMATIC ET 200SP 8x24V DC digital output
Mounting	DIN rail. Space for additional devices.
Power	24V DC power supply

Software Specifications

Device Software	<ul style="list-style-type: none"> - Windows OS and Linux OS can be hosted as Virtual Machines - Container support (Linux Dockers) - Time-series database (Influx) - Local PLC logic exchange tool - Connection to System Manager
System Manager	<ul style="list-style-type: none"> - Hosted in Azure cloud - Application repository - Deployment of CODESYS programs - Data visualization (Grafana) - User web interface
Integrated Soft PLC	<ul style="list-style-type: none"> - CODESYS 3.5 - PROFINET Master / Slave - EtherCAT and Modbus TCP/IP supported
Applications	Default CODESYS applications included
Protocol Support	OPC UA, MQTT



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