Local AI with OpenVINO™ Enables Cloud Independence

CODESYS MCP Server



CODESYS x ASUS x intel

By leveraging Intel® technologies, CODESYS MCP Server by CODESYS helps accelerate testing and deployment of increasingly complex PLC applications through local AI, improving development efficiency and responsiveness.

With the CODESYS MCP Server, any AI system can assist in the creation, optimization, documentation, and testing of industrial PLC applications. The AI acts as an "artificial colleague", receiving commands from the actual PLC programmer and processing them directly within the IDE, the CODESYS Development System, via the standard interface. However, the risks associated with using AI systems hosted in the cloud are increasingly coming to the forefront: Companies are suddenly blocking certain models, and it is unclear how the cost structure will change in the coming weeks, months, or years. Furthermore, the use of language models on the Internet is prohibited for applications in critical infrastructures, among other scenarios. Local AI systems provide a solution.

In collaboration with OpenVINO™ toolkit, a Local AI solution has been developed that allows CODESYS users to work with an "artificial colleague" without having to worry about these risks. The solution runs on the ASUS NUC 16 Pro, powered by an Intel® Core™ Ultra Series 3 processor, providing efficient on-device AI performance for local inferencing and PLC development workflows. Not least because the vast majority of artificial intelligence knowledge is irrelevant to the implementation of control applications anyway.

CODESYS MCP Server by CODESYS delivers faster, higher-quality PLC application development through AI-assisted workflows that improve programming efficiency and reduce implementation time.

Intel Products & Technologies

Accelerating AI and analytics at the edge

Intel® Core™ Ultra Series 3 Processor

OpenVINO™ Toolkit

Key Intel-Enabled Features

Real-Time AI and analytics make it easy

- Local AI
- Offline AI Operation
- AI-Optimized PLC Coding
- Trusted Local Deployment

Powered by Intel® processors and optimized with the OpenVINO™ toolkit, CODESYS and ASUS deliver:

01

OpenVINO™ toolkit enables efficient local AI inference on Intel® processors.

02

Intel® Core™ Ultra Series 3 processors enable offline AI execution.

03

OpenVINO™ toolkit helps optimize AI models for PLC development.

04

Intel® hardware supports secure, reliable deployment of local AI.

That's the power of Intel Inside®.

Country/Geo:

Worldwide

Verticals:

Manufacturing & Energy; Smart Cities & Transportation; Smart Buildings; Robotics; Healthcare & Life Sciences; Education; Federal & Aerospace; Enterprise

Use Cases:

Operational Efficiency; Process Optimization; Operational Diagnostics;

About CODESYS

CODESYS is the leading IDE for programmable automation devices. Numerous manufacturers worldwide with different hardware platforms use the software. In addition to traditional PLC programming, the software includes built-in features for typical industrial automation requirements, e.g. motion, visualization, safety, and AI via the MCP Server, which enables automated code generation.

www.codesys.com

Development System MCP Server - Edge AI Partner Spotlight

intel ai
Intel® AI Edge Applications

About ASUS

ASUS is a global technology company driven by innovation and passionate about enhancing digital life. It designs and delivers a broad range of products and solutions that empower people and organizations, combining cutting edge engineering, quality, and sustainability to create intuitive, reliable experiences for users worldwide.

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ASUS NUC 16 Pro - Edge AI Partner Spotlight

intel ai
Intel® AI Edge Systems

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