

AI-Supported Engineering

CODESYS Development System MCP Server

CODESYS AI-supported Engineering enhances the CODESYS Development System with AI-powered tools that help industrial automation engineers work more efficiently. Through the award-winning CODESYS Development System Model Context Protocol (MCP) Server, engineers can connect local or cloud-based LLMs directly to the development environment for code generation, code analysis, project exploration, error detection, code explanation, and programming assistance.

Optimized for local deployment on Intel® Core™ Ultra Series 3 processors, the solution enables AI-assisted engineering without requiring cloud connectivity, helping organizations maintain control of source code, prompts, and intellectual property. Engineers can leverage familiar CODESYS workflows while supporting secure, on-premises, and air-gapped environments across manufacturing, energy, building automation, and industrial control applications.



*CODESYS MCP Server delivers AI-assisted PLC development, enabling **faster application creation, improved efficiency, and higher-quality results.***

Key Intel-Enabled Features



AI
Engineering
Tools



Inline Code
Completion



MCP AI
Integration



Private
Edge AI

- Seamless AI integration enabled by [Intel® Core™ Ultra Series 3 processors](#) and integrated [Intel® Arc™ graphics](#) for local or cloud-based LLM connectivity.
- [OpenVINO™](#)-optimized AI assistance for code analysis, project exploration, and engineering productivity.
- NPU-accelerated inline code completion with [Intel® AI Boost](#) for a more efficient development experience.
- Private AI at the industrial edge, helping keep source code, prompts, and IP on premises.

By leveraging Intel® technologies, CODESYS MCP Server helps address the growing complexity of PLC applications through local AI, enabling faster, more effective testing and implementation.

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Ordering Guidance:

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Country/Geo: United States; Canada; Europe, Middle East, and Africa; Asia Pacific & Japan

Edge Verticals: Manufacturing & Energy

Edge Use Cases: Generative AI; PLC Code Generation; PLC Operational Guidance Chatbot

Learn more:

- [CODESYS Group Website](#)