

**YASKAWA**

# SPEED7 Studio

Integrated Smart Engineering Tool



# Integrated engineering



## HARDWARE CONFIGURATION



Already during hardware configuration, SPEED7 Studio simplifies and facilitates your work. You save on time-consuming training immediately because of: clever Drag & Drop functions, tool tips, photo realistic display of the modules.

Numerous features support you during project engineering like the following examples from the large scope of functions: the automatic calculation of the current demand in the SLIO system, the integrated SPEED bus module, the online display of the digital I/Os.

## PROGRAMMING



S7 editors and debug tools for IL, FBD and LAD are the instruments for programming with SPEED7 Studio. They are particularly easy to understand by means of: clearly structured color schema, clearly identified hierarchy levels, a cross-reference list, and many other features.

Diagnosis by means of module status and observation charts is possible - even with history and trend display.

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## NETWORKING



SPEED7 Studio makes networking via: PROFIBUS, PROFINET, EtherCAT, Standard-Ethernet and S7 connections consistently logical.

Independent from the bus protocol the topology view is always the same. Therefore the network configuration and the user allocation can be done quickly and easily. This combination of the standard STEP7 world and the EtherCAT world offers an unprecedented overview and reduces effort enormously.





## DIAGNOSIS

Extensive test and diagnostic functions of VIPA CPUs, and the fieldbus systems PROFIBUS, PROFINET, and EtherCAT result in efficient and constructive trouble shooting in SPEED7 Studio. Considerably simplified access to EtherCAT by: automatic reading of the connected EtherCAT hardware, fast and clear project engineering and parameterization, complete network diagnosis.

The integrated PLC and HMI simulation bring following simplifications:  
 A clear and structured test of complex systems beforehand, extreme simplification of the fault diagnosis through the newly developed real time recordings of the data points from the PLC, even at sporadically occurring faults. Besides this you can make a detailed analysis with the fully integrated logic analyzer.

### Supported systems

VIPA PLCs (MICRO, 200V, SLIO, 300S+) all VIPA Panels, YASKAWA inverters (A1000, GA700, etc.) as well as SIGMA5 and SIGMA7 Servo Drives

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## MOTION CONTROL

SPEED7 Studio allows a new, highly efficient way of drive configuration. With the Motion Control library (PLCopen) machine functions can be projected also without any special system know-how. The best of the VIPA control world and the YASKAWA drive world could now be found in a single tool.

For the multi-axis applications the cam disk editor is available. This allows for the creation of the motion laws of the VDI 2143 for the electronic cam disk with only a few clicks. Mechanical cam disks are emulated exactly and can be simply developed further. Through the high-performance cycle synchronicity the motion axes can be positioned optimally and exactly.

## VISUALIZATION

There are two visualization options:

The web-based version with vector oriented graphics for the site and runtime independent access on your machines and plants via panel, laptop, smartphone and tablet PC.

The second version with the option of implementing extensive visualizations via SCADA interface.

With the joint variable household all project variables can be used with SPEED7 Studio for the visualization without interface loss.



# Tailor-made for you



## The SPEED7 Studio – License model

PRO

- + All functions of the **BASIC** version
- + Synchronous **Motion Control** functionalities
- + Axis configuration for **Inverters** and **Servo Drives**

- + PLCopen function blocks
- + **CAM editor** with CAM profiles according to **VDI 2145**
- + **Logic analyzer** for fast trouble shooting

BASIC

- + All functions of the **LITE** version
- + SCADA System Movicon for **ALL VIPA Panels & PanelPCs**
- + Access to **SigmaWin+**

- + S7 program without any memory limitation for **ALL VIPA PLCs**
- + Access to **DriveWizard Plus**

LITE

- Support of **ALL VIPA PLCs** with a S7 program size up to **128 KB**
- WebVisualization for **ALL VIPA ecoPanels**
- PLC and HMI simulation integrated
- **S7 editors** for STL, FBD and LAD



Modbus RTU  
ASCII  
STX/ETX  
PROFIBUS  
MPI



Modbus TCP  
PROFINET  
EtherCAT  
S7-COM

**30**  
days demo

Test our engineering tool for 30 days in FULL functionality (PRO). After the expiry you can decide for one of the three license versions.

**YASKAWA**

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