CODESYS

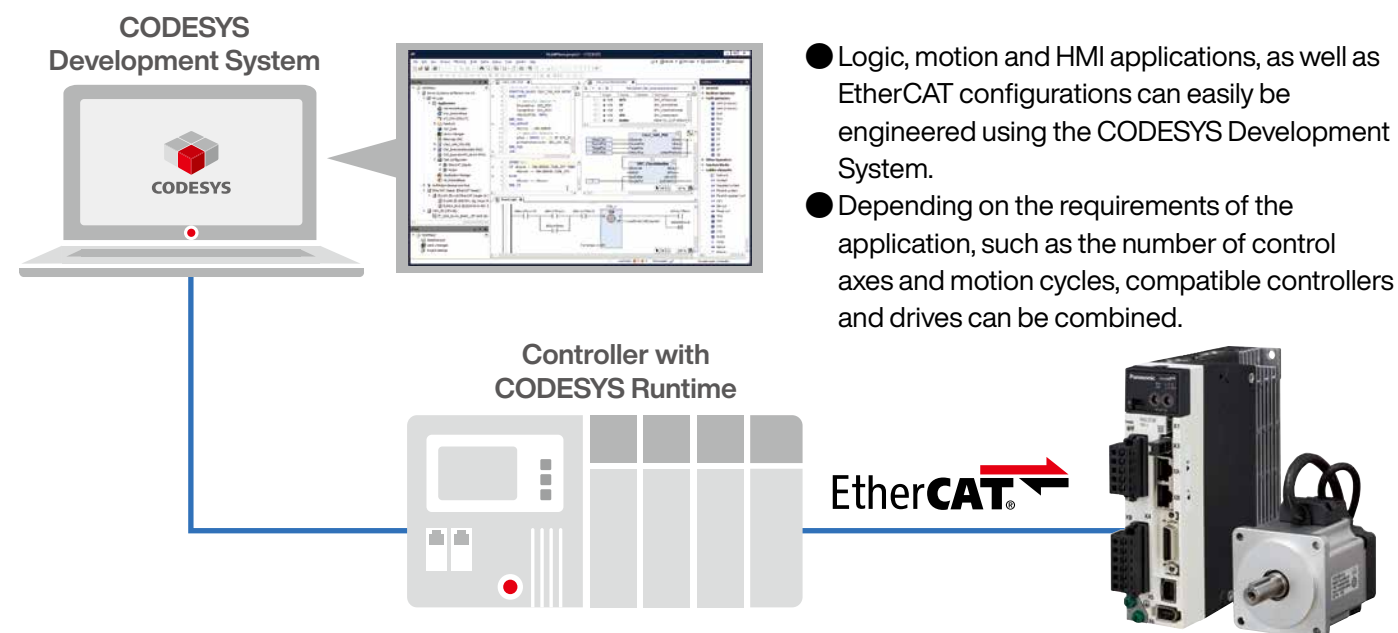## IEC 61131-3 Engineering / Software PLC / Motion / CNC / HMI

Features

CODESYS

CODESYS is the number one hardware-independent IEC 61131-3 software suite for the automation industry. The tool is used to develop application software for compatible hardware and software PLCs, professional HMI screens and motion control projects with CNC or robotics for example using EtherCAT.
More than 400 device manufacturers worldwide use the tool to engineer their intelligent devices. Well over one million such devices are used to operate different industrial machines and plants every year.

System Configuration

CODESYS Development System

● Logic, motion and HMI applications, as well as EtherCAT configurations can easily be engineered using the CODESYS Development System.
● Depending on the requirements of the application, such as the number of control axes and motion cycles, compatible controllers and drives can be combined.

Controller with CODESYS Runtime

EtherCAT

Specification

Fully integrated: Realize PLC, Motion and HMI functions on a single device with CODESYS.

PLC Programming
Engineering
IEC 61131-3-compliant, all languages (ST, Ladder, FBD, SFC, CFC) supported, plus real object oriented programming

SoftMotion
Motion + CNC
For single axis control, electric cam and gear, using the integrated FBs (PLCopen Motion Control part 1, 2 compliant)

SoftMotion CNC+Robotics
Motion + CNC
For complex coordinated motion control tasks such as robotics/CNC applications using the integrated FBs (PLCopen Motion Control part 4); linear / circular interpolation, various kinematics, G-code programming, comfortable axis configuration etc.
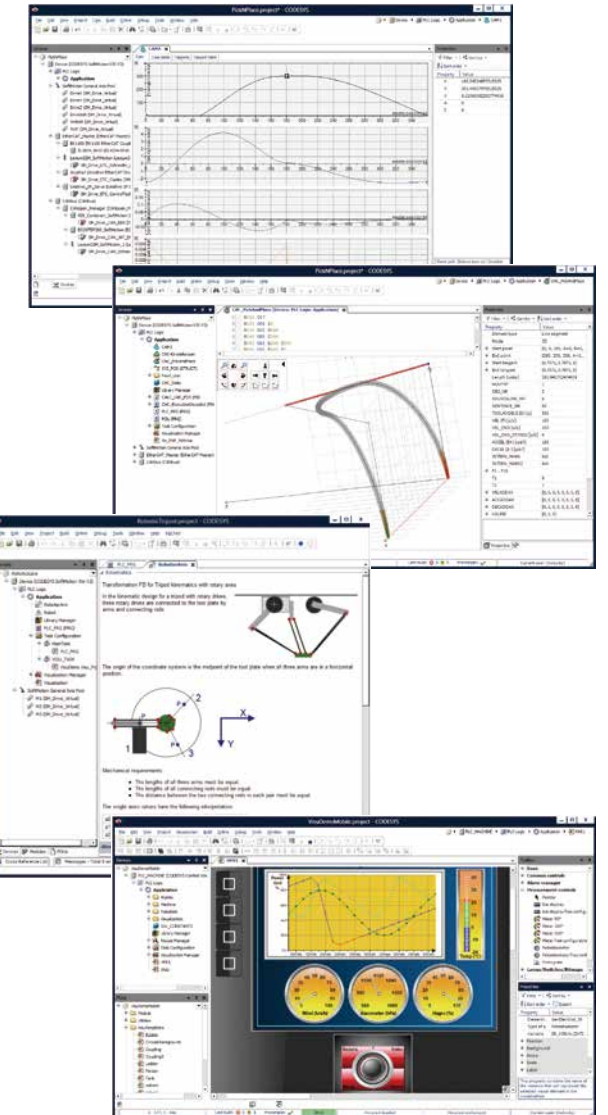
HMI, Visualization
Visualization
Integrated visualization editor in the CODESYS Development System: easy creation of modern operation screens and linking to IEC 61131-3 variables; display of the generated screens on IPCs, on panel PLCs with CODESYS TargetVisu, on standard Web browsers with CODESYS WebVisu (via HTML5) or in the engineering tool

Fieldbus
Fieldbus
Integrated fieldbus configurators and protocol stacks as CODESYS libraries seamlessly integrated in the CODESYS Development System for numerous fieldbus systems, such as EtherCAT, PROFINET, Ethernet/IP

EtherCAT   EtherNet/IP   PROFINET   Modbus   CANopen

Sales area

● Japan ● Germany ● China ● Korea
● Russia ● EU ● United Kingdom
● Italy ● France ● Netherlands

Language

● Japanese ● English ● Chinese
● German ● Italian ● Russian
● Spanish ● French

For more information

URL : https://www.codesys.com