

CODESYS SoftPLC

An HMI × PLC Solution

Display Logic

HMI
Multi-Core



Control Logic

SoftPLC
RTOS
Dedicated Core

Key Features



Built-in Communication Protocols

Supports MODBUS TCP/IP, Profinet, EtherCAT, CANopen, and EtherNet/IP—no additional licenses required for device integration.



Powerful PLC Development

CODESYS provides an open, universal platform for creating control logic applications.

Display



Dual OS Multi-Purpose

One HMI handles display and PLC logic independently, ensuring stable, interference-free operation.

IEC

IEC 61131-3 Support

Supports all five IEC 61131-3 languages for flexible use across automation equipment and controllers.

Hardware

Ethernet Interfaces	1 × 10/100/1000-BaseT (LAN1)*
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CAN Bus	1 × CAN Bus*
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* After CODESYS is activated, the LAN1 and CAN Bus of the HMI will be controlled by CODESYS and cannot be used by the HMI.

Storage / Memory

Data, Input, Output, Memory, Code	5 MB*
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Retain Area (Data persists after reboots)	32 KB* (Data is saved every 1 minute)
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Persistent Area (Data persists after downloads)	32 KB* (Data is saved every 1 minute)
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File System	12 MB* (External file downloads to CODESYS are limited to a total of 7MB of file system space.)
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* CODESYS Runtime 20240703 or later and Package 1.5.3.500 or later.

Software

PLC Runtime	CODESYS Control for Embedded Systems
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Protocol	MODBUS TCP/IP Master EtherCAT Master (CODESYS Runtime 20200401 or later) EtherNet/IP Scanner (CODESYS Runtime 20230204 or later) CANopen Manager (Supported on CAN Bus models only) PROFINET Controller (CODESYS Runtime 20250121 or later and Package 1.5.3.510 or later)
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No. of MODBUS TCP/IP Slaves	32 stations per master
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No. of CANopen Slaves	126 stations per master
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No. of EtherCAT Slaves	65535
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No. of EtherNet/IP Slaves	32 stations
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No. of PROFINET devices	32 devices
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Max. no. of TCP Connections	32
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CODESYS programming / communication channels	16 (CODESYS Runtime 20240703 or later and Package 1.5.3.500 or later)
CODESYS SoftMotion	N/A (Weintek Library contains motion control commands)
CODESYS WebVisu/TargetVisu/HMI	N/A (cMT X HMI does provide more functionalities)
	Utility Manager (Download only)
Runtime login/monitor/download	Login to PLC via LAN1 Login to PLC via LAN2 (TCP only) (OS 20181211 or later)
PLC Development Tool	CODESYS V3.5 SP10 Patch 3 or later
HMI Development Tool	EasyBuilder Pro V6.00.02 or later
HMI Driver	Weintek Built-in CODESYS CODESYS V3 (Ethernet)

* CODESYS® is a trademark of CODESYS GmbH.

Supported HMI Models and OS Version

All cMT X series models come with a default OS version supporting CODESYS, except for the cMT1106X, cMT2166X, models with built-in cMT Viewer, and Web Panels.

cMT3108XH: OS version 20220606 or later

cMT2058XH: OS version 20240604 or later