



An HMI x PLC Solution. Features include:

- No hardware modification required
- CODESYS PLC compliant with IEC61131-3
- Easy to start and program

### Hardware

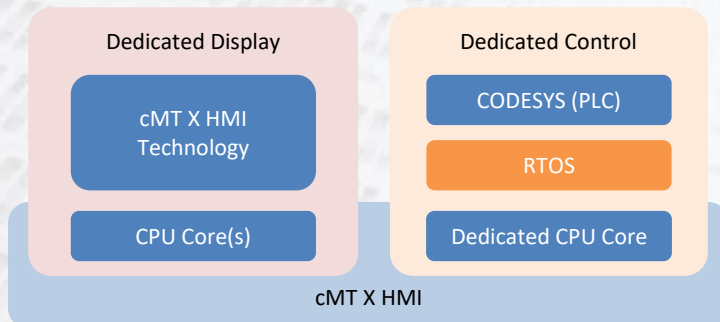
<b>Ethernet interfaces</b>	1 x 10/100/1000-BaseT (LAN1)* <sup>1</sup>
<b>CAN Bus</b>	1 x CAN Bus* <sup>1</sup>

### Storage/Memory

<b>Data, Input, Output, Memory, Code</b>	5 MB* <sup>7</sup>
<b>Retain area (Data persists after reboots)</b>	32 KB* <sup>7</sup> (Data is saved every 1 minute)
<b>Persistent area (Data persists after downloads)</b>	32 KB* <sup>7</sup> (Data is saved every 1 minute)
<b>File system</b>	12 MB*2* <sup>7</sup>

### Software

#### cMT X + CODESYS Innovative Architecture



- Supports all cMT X features
- Dedicated resources for two systems (HMI & PLC logics)
- High performance PLC running on a real-time OS (RTOS)
- Supports various industrial protocols

<b>PLC Runtime</b>	CODESYS Control for Embedded Systems
<b>Protocol</b>	MODBUS TCP/IP Master EtherCAT Master* <sup>3</sup> EtherNet/IP Scanner* <sup>4</sup> CANopen Manager* <sup>5</sup> PROFINET Controller* <sup>6</sup>
<b>No. of MODBUS TCP/IP Slaves</b>	32 stations per master
<b>No. of CANOpen Slaves</b>	126 stations per master
<b>No. of EtherCAT Slaves</b>	65535
<b>No. of EtherNet/IP Slaves</b>	32 stations
<b>No. of PROFINET devices</b>	32 devices
<b>Max. no. of TCP connections</b>	32
<b>CODESYS programming/communication channels</b>	16* <sup>7</sup>
<b>CODESYS SoftMotion</b>	N/A

	(Weintek Library contains motion control commands)
<b>CODESYS WebVisu/TargetVisu/HMI</b>	N/A (cMT X HMI does provide more functionalities)
<b>Runtime login/monitor/download</b>	Utility Manager (Download only) Login to PLC via LAN1 Login to PLC via LAN2 (TCP only) (OS 20181211 or later)
<b>PLC Development tool</b>	CODESYS V3.5 SP10 Patch 3 or later
<b>HMI Development tool</b>	EasyBuilder Pro V6.00.02 or later
<b>HMI Driver</b>	Weintek Built-in CODESYS CODESYS V3 (Ethernet)

### 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.

Models listed below support CODESYS with the specified OS version or later:

cMT3108XH: OS version 20220606 or later

cMT2058XH: OS version 20240604 or later

### Notes

1. After CODESYS is activated, the LAN1 and CAN Bus of the HMI will be controlled by CODESYS and cannot be used by the HMI.
2. External file downloads to CODESYS are limited to a total of 7MB of file system space.
3. CODESYS Runtime 20200401 or later supports EtherCAT Master.
4. CODESYS Runtime 20230204 or later supports EtherNet/IP Scanner.
5. Only models with a CAN Bus support the CANopen Manager.
6. CODESYS Runtime 20250121 or later and Package 1.5.3.510 or later support PROFINET Controller.
7. CODESYS Runtime 20240703 or later and Package 1.5.3.500 or later.

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