IEC 61131-3 Compliant Programmable Logic Controller

EHV+ Series

Powered by CODESYS

HITACHI
Inspire the Next

Powerful general purpose PLC

CODESYS

Powerful and flexible

Hitachi EHV+ Series

Core of the new powerful general purpose EHV+ CPU series is the CODESYS V3 runtime system. The result is an open and flexible system which is completed through utilising existing EH-150 modules.

Memory capacity
- User program (RAM) up to 2048 kByte
- Boot project (FLASH) up to 2048 kByte
- Source file (FLASH) up to 5 MByte
- Data memory 512 kByte

Communication interfaces
- Ethernet (10BASE-T/100BASE-TX)
- USB interface (Ver. 2.0 Full speed 12 Mbps)
- Serial interface (RS-232C/RS-422/RS-485)

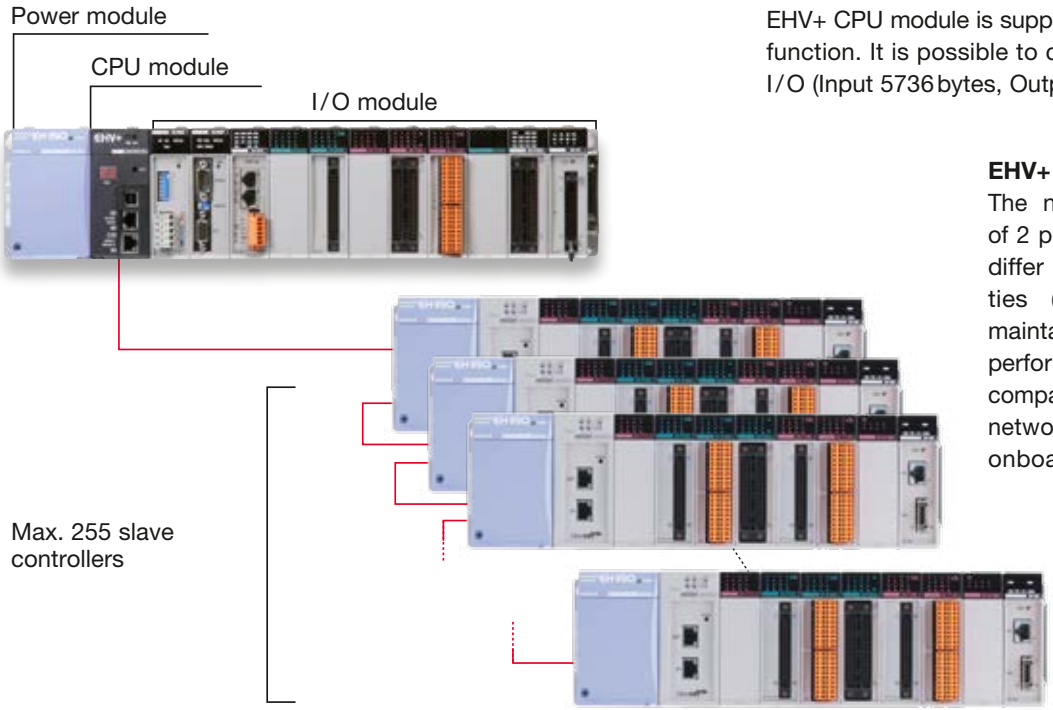
Programming
- Communication protocol CODESYS V3
- Programming languages according to IEC 61131-3: LD, IL, FBD, ST, SFC, CFC

Communication protocols
- Modbus TCP Cient/Server
- Modbus RTU Master
- EtherCAT Master

CODESYS

EtherCAT Technology Group

Modbus



EHV+ CPU module is supporting the EtherCAT master function. It is possible to control up to 11472 bytes I/O (Input 5736 bytes, Output 5736 bytes).

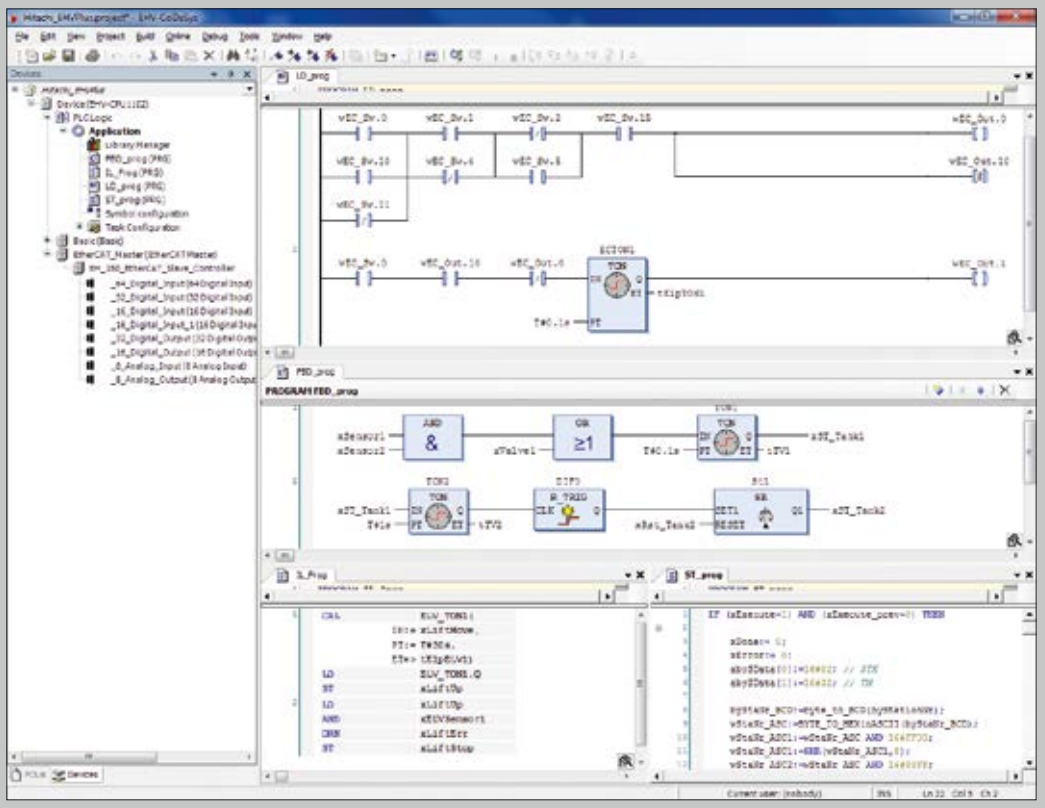
EHV+ CPU module

The new EHV+ series consists of 2 powerful CPUs. The models differ through memory capacities (512, 2048 kByte) whilst maintaining a consistently high performance. The EHV+ CPU is compatible with a variety of open networks through use of the onboard Ethernet interface.

Easy and efficient

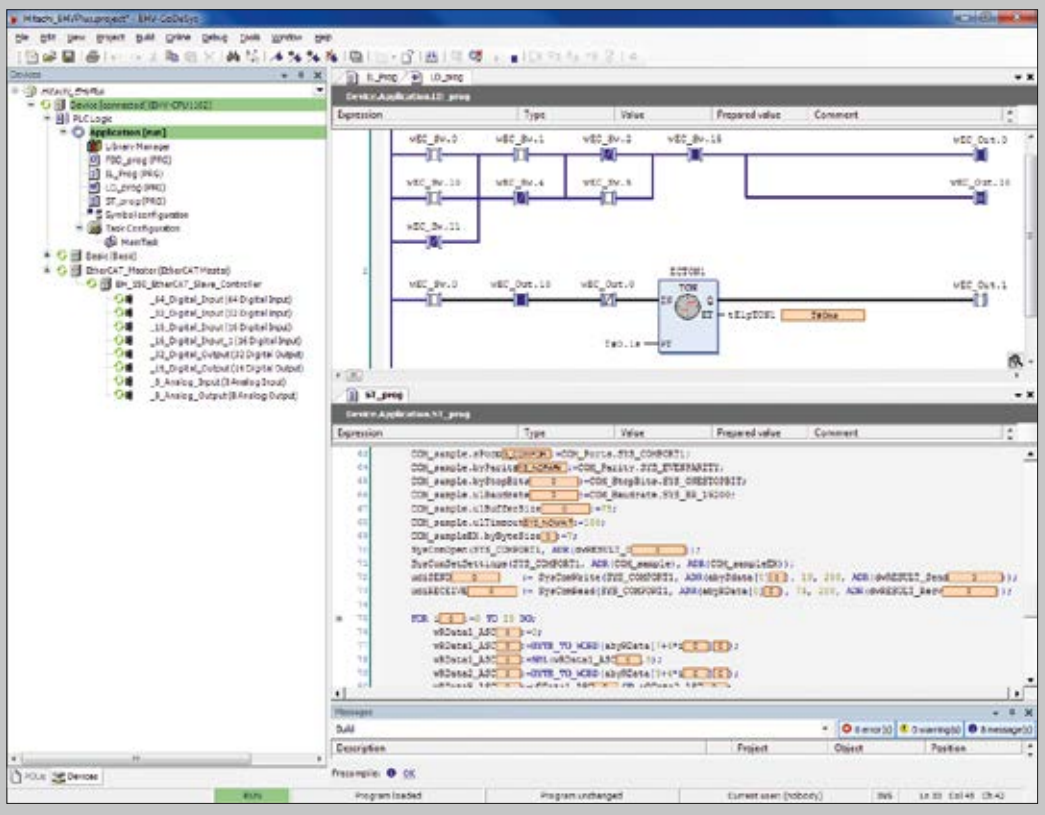
Flexible choice

Flexible choice of editors and usage of library functions considerably decreases programming time



Fast and convenient

Fast and convenient debugging/testing during commissioning



Specifications

Type		EHV-CPU1025	EHV-CPU1102
Processing speed		80 ns / instruction	80 ns / instruction
Memory	User program (RAM)	512 kByte	2048 kByte
	Boot project (FLASH)	512 kByte	2048 kByte
	Source file (FLASH)	5 MByte	5 MByte
	Data memory	384 kByte	384 kByte
	Retain data memory	128 kByte	128 kByte
Supported expansion bases		5	5
Fieldbus memory		16 kByte (2 kByte × 8 units)	
Processing method		Refresh	
Programming software		EHV-CODESYS (Version 3.5)	
Programming languages		LD, IL, FBD, ST, SFC, CFC (Continous Function Chart)	
Communication port		CODESYS V3 protocol	
USB	2.0, Full speed	Programming	
Ethernet	UDP / IP, TCP / IP	Programming / General purpose / Modbus TCP Client / Modbus TCP server / EtherCAT Master / EtherNet/IP (under development)	
Serial	RS232C / 422 / 485	General purpose / Modbus RTU Master	
User Interface	Display	RUN LED, ERR LED, 7-segment LED	
	Run switch	Remote RUN / STOP (RUN position)	
	E.CLR switch	Clear error indication in 7-segment LED	
RTC		Supported (access by RTC FB)	
Battery		Built-in (LIBAT-H)	
Approval		CE, UL, cUL, C-Tick	

EHV-CODESYS

Item		Descriptions
System requirements	RAM	1 GB
	Operating System	Windows XP / Windows Vista / Windows 7 (32-bit / 64-bit)
	CPU	1 GHz Pentium
	Hard disk	1 GB
	Screen resolution	1024 × 768
Communication cables	USB	Standard USB cable (Type B connector)
	Ethernet	UTP or STP cable (cat5E)

Programming software EHV-CODESYS
Thanks to full compliance to the IEC 61131-3 standard, the user can select among 6 programming languages (LD, IL, FBD, ST, SFC, CFC) in EHV-CODESYS.

In addition to the PLC programming functionality, EHV-CODESYS offers powerful visualisation functions such as an integrated graphical editor, which is useful for testing, commissioning or diagnostic purposes.

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