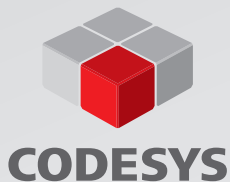
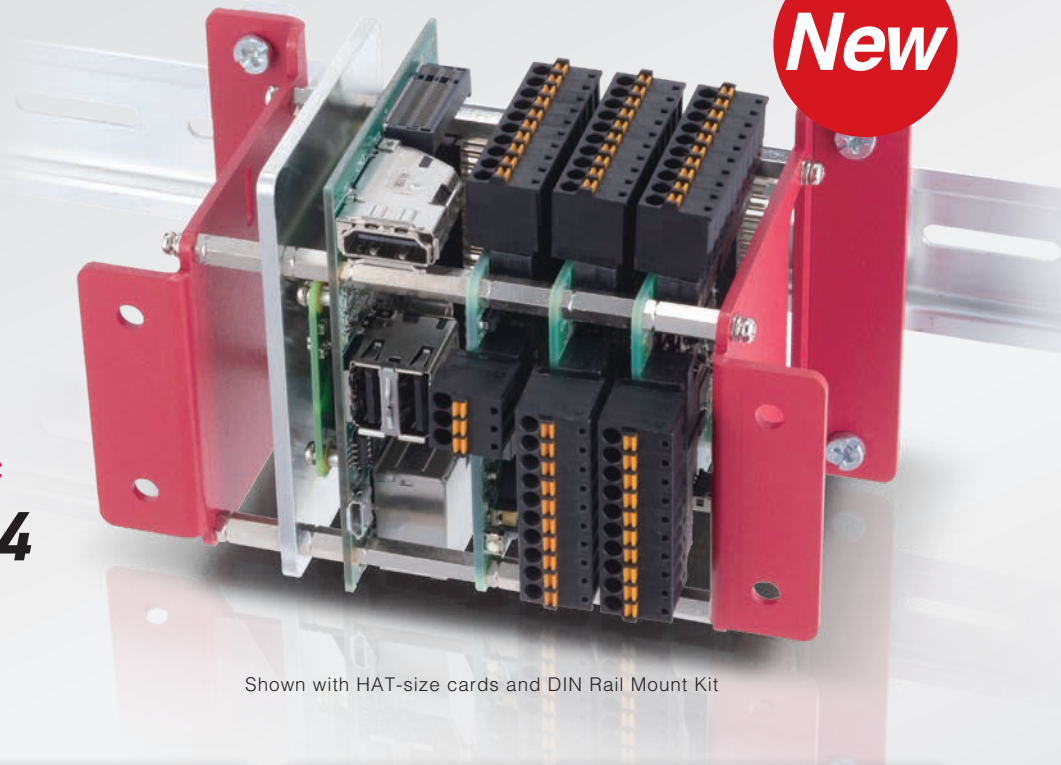


Raspberry Pi All-in-One PLC with CODESYS®



New



Shown with HAT-size cards and DIN Rail Mount Kit

Model with preinstalled
CODESYS® software PLC

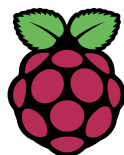
CPI-PS10CM4

Raspberry Pi OS Model

CPI-MS10CM4

High compatibility with Raspberry Pi 4

Raspberry Pi has shipped more than 60 million computers worldwide. This product achieves high compatibility with Raspberry Pi 4 using an embedded CM4 module. It is industrial grade, meeting requirements for RAS/RTC expansion, reliability, environmental resistance and long-term use.



Preinstalled CODESYS®

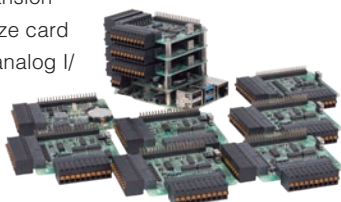
Model CPI-PS10CM4 is preinstalled with CODESYS software PLC, used by more than 400 companies worldwide with over one million deployments each year. Allows programming in six IEC61131-3-compliant languages.



*CPI-PS10CM4 only

I/O expansion with HAT-size cards

A local bus makes I/O expansion easy. Our extensive HAT-size card range includes digital I/O, analog I/O and counter cards.



**Our HAT-size card
lineup is growing!**

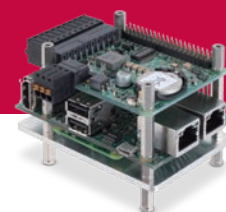
Industrial open networks supported

Extensive industrial network communication functionality supporting EtherCAT, PROFINET, EtherNet/IP and Modbus. Built-in OPC UA server and Web HMI functionality. (SoftMotion is optional.)

*CPI-PS10CM4 only



* Raspberry Pi is a trademark of Raspberry Pi Ltd.



Ordering Information

Model	CM4 Module	Memory	Storage	OS
CPI-PS10CM4-2E021	Raspberry Pi Compute Module 4	2GB RAM	16GB eMMC	Raspberry Pi OS + CODESYS®
CPI-MS10CM4-2E021				Raspberry Pi OS

Specifications

Item	Description	
CM4 Module	Module	Raspberry Pi Compute Module 4
	CPU	Broadcom BCM2711 quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
	GPU	VideoCore VI® 500MHz
	Memory	2GB LPDDR4-3200 SDRAM
	Storage	16GB eMMC flash memory
Interface	Display	HDMI1.4x1 (Set the resolution to 1920 x 1080 or lower.)
	LAN	1000BASE-T/100BASE-TX/10BASE-T RJ-45 connectorx1 (Built-in CM4 modulex1) 100BASE-TX/10BASE-T RJ-45 connectorx1 (MICROCHIP LAN9512x1)
	USB	USB 2.0 Type A x2, USB 2.0 Micro-B x1 (for OS writing)
	NVMe	PCIe Gen2 type2242 Key-M
	Digital I/O	DIx2(non-isolated) DOx1(solid-state relay output, opt-isolated)
	External power supply output	8 to 28VDC power supply output : Max.2A(Output voltage depends on DC power input voltage) < No additional expansion card, 5VDC bus partial power output 0A, USB device 1.0A supply, SSD installed > 5V±5% 500mA (Max.) ^{*1}
	LEDs	Power LED, Status LED, Access LED, Active LED
	Switches	Power switch, Settings switch (interrupt signal)
	RTC	RTC with built-in battery
Power supply	Rated voltage	8 to 28VDC
	Current consumption ^{*2}	<8V to 28V and with an external power supply output of 0A> 8VDC 4.0A (Max.), 28VDC 1.1A (Max.)
Operating temperature ^{*3}		-20 to 50 °C (-4 to 122°F) without airflow ; -20 to 60°C (-4 to 140°F) airflow 0.7m/s
Physical dimensions (W x D x H)		82.9 x 56.5 x 61.7 mm (3.26 x 2.22 x 2.43 in), Not including the attachment fitting or protrusions
Standards		CE marking (EMC Class A, RoHS), FCC Class A, UKCA, VCCI Class A

*1 The power supply output value should be such that the total power consumption value is less than the available power supply value.

*2 The product is equipped with a fuse (rated current: 5A) for preventing overcurrent in the power supply input.

*3 The 5V output current may be limited depending on the ambient temperature. (For details, refer to the manual.)

Options

HAT-Size Expansion Cards

Model	Function Specifications
CPI-AI-1208LI	Bus isolated analog input 12-bit 8ch (Differential 4ch), Voltage input / Current input
CPI-AO-1602LC	Bus isolated analog output 16-bit 2ch, Voltage output / Current output
CPI-DIO-0808L	Opto-isolated digital inputs 8ch and opto-isolated digital outputs 8ch
CPI-DIO-0808RL	Opto-isolated digital inputs 8ch (negative-common) and opto-isolated digital outputs 8ch (negative-common)
CPI-DI-16L	Opto-isolated digital inputs 16ch
CPI-DO-16L	Opto-isolated digital outputs 16ch
CPI-DO-16RL	Opto-isolated digital outputs 16ch (negative-common)
CPI-RRY-16	Semiconductor relay outputs 16ch
CPI-CNT-3201I	Opto-isolated input 32-bit up/down counter 1 ch, Single phase input/Two-phase input (A/B/Z)

Others

Product Name	Model	Description
AC Adapter	PWA-65AWD9	Switching AC Adapter 65W (Input 100 to 240VAC Output 19VDC 3.4A)
Embedded power supply	CPS-PWD-30AW24-01	Embedded power supply 30W (Input 100 to 240VAC Output 24VDC 1.3A)
	CPS-PWD-90AW24-01	Embedded power supply 90W (Input 100 to 240VAC Output 24VDC 3.8A)
DIN rail mounting kit	CPI-DIN01	Simple mounting onto DIN rails. Wall mounting and desktop installation are also supported.



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