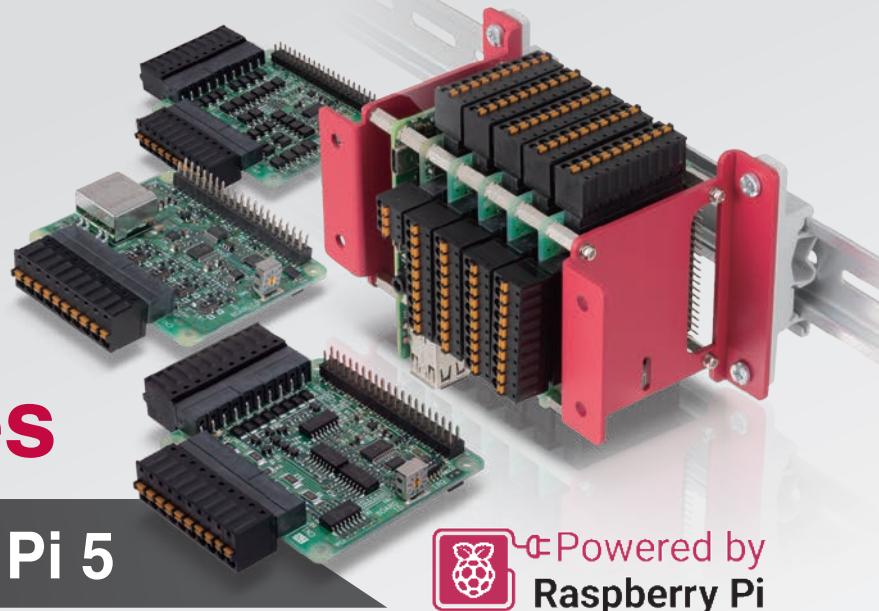


HAT size  
Expansion cards  
for Raspberry Pi®

# CPI Series

Supports Raspberry Pi 5



Powered by  
Raspberry Pi

## Expanded RAS functions

### CPI-RAS

- Clock (RTC) with backup battery
- Watchdog timer
- Hardware monitoring
- 5 VDC general-purpose power supply output (With ON/OFF control)
- 12 to 24 VDC output control / GPIO control

## Bus isolated analog input

### CPI-AI-1208LI

- 12-bit analog input 8ch (Differential 4ch)
- Voltage input / Current input

## Bus isolated analog output

### CPI-AO-1602LC

- 16-bit analog output 2ch
- Voltage output / Current output

## Thermocouple input

### CPI-SSI-4C

- 4ch Thermocouple input (differential input)
- Thermocouple types (J, K, E, N, R, S, T)

## Opto-isolated digital input and output

### CPI-DIO-0808L

- 8ch opto-isolated input (Supports current sink or source output)
- 8ch opto-isolated output (Current sink type)

## Opto-isolated digital input and output (negative-common)

### CPI-DIO-0808RL

- 8ch opto-isolated input (Supports current sink or source output)
- 8ch opto-isolated output (Current sink type)

## Opto-isolated digital input

### CPI-DI-16L

- 16ch Opto-isolated input (Supports current sink or source output)

## Opto-isolated digital output

### CPI-D0-16L

- 16ch opto-isolated output (Current sink type)

## Opto-isolated digital output (negative-common)

### CPI-D0-16RL

- 16ch opto-isolated output (Current source type)

## Relay output

### CPI-RRY-16

- 16ch semiconductor relay (1a)

## Opto-isolated counter input

### CPI-CNT-3201I

- 32-bit up/down counter 1 ch
- Opto-isolated input
- Single phase input/Two-phase input (A/B/Z)
- Response speed 500kHz

## DIN rail mounting kit

### CPI-DIN01

- Simple mounting onto DIN rails.
- Wall mounting and desktop installation are also supported.
- Raspberry Pi-inspired matte coating that makes scratches less visible

— Analog inputs/outputs, counters, temperature sensor inputs, and more! —

State-of-the-art measurement control I/O from Contec

Utilize all valuable development assets  
with multi-platform support

Integrated drivers for minimizing the effects of hardware differences  
with high API-level compatibility



\* Raspberry Pi is a trademark of Raspberry Pi Ltd.

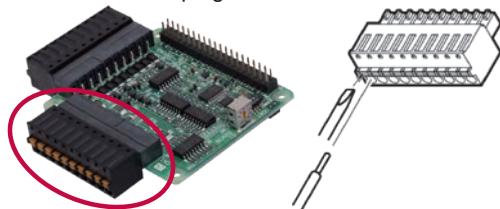
# Introducing the **CPI** Series of Raspberry Pi HAT Cards



## ■ Features

### Push-type terminal block for easy wiring

Convenient, simple connection and disconnection without the need for tools or crimping terminals.



### Stacked connection of up to 8 Cards

Expanded HAT specifications including address ID configurability for connecting up to eight stacked Cards.



Connectable to  
HATs from other  
manufacturers

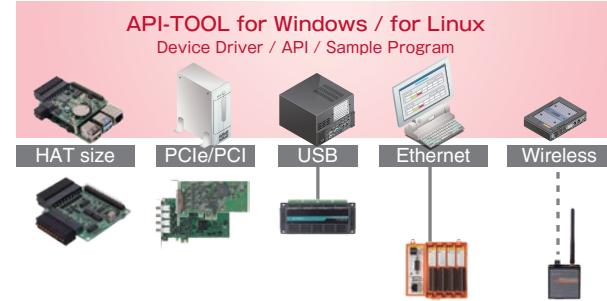
### Free downloadable API and sample programs

Download CONTEC's free Linux driver (API-TOOL for Linux).

### Supports Raspberry Pi 5



### API compatible with PC expansion cards



## ■ Ordering Information

| Model          | Function Specifications                                                                                                                                                                                                                                                                                                   |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPI-RAS        | Support for a wide range of power supply inputs (8 to 28 VDC), 5 VDC internal power supply<br>5 VDC external power supply output (with ON/OFF control), RTC (real-time clock)<br>WDT (watchdog timer), Hardware monitor (CPU temperature / power supply voltage)<br>LED lighting control (green/red), General digital I/O |
| 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-SSI-4C     | 4ch Thermocouple input (differential input), Thermocouple types (J, K, E, N, R, S, T)                                                                                                                                                                                                                                     |
| 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)                                                                                                                                                                                                                               |

## ■ Options

| Product Name                                            | Model type        | Description                                                                                |
|---------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------|
| Embedded power supply that can be mounted on a DIN rail | 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. |
| Spacer set (x2) for Raspberry Pi 5                      | CPI-SPA01-2       | Spacer for attaching CPI series to the Raspberry Pi 5                                      |

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