

PC-based DAQ & Control

Modular USB I/O unit



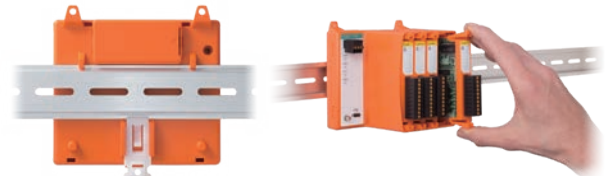
* Example configuration with four mounted I/O modules pictured above.



python™

Python-compatible

35mm DIN rail mountable.
Tool-free to insert / remove an I/O modules.



Abundant I/O modules

Various signals supported

Abundant I/O modules for computerizing various signals

Keep adding new modules

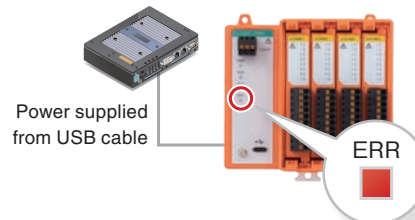


- Voltage input and output
- Current input and output
- Accumulating counter
- Digital input and output
- Relay output

Support for USB bus power

No AC adapter or other external power supply needed

Controller power can be supplied via a USB cable



The included LED notifies users if the total current consumption exceeds the bus power amount.

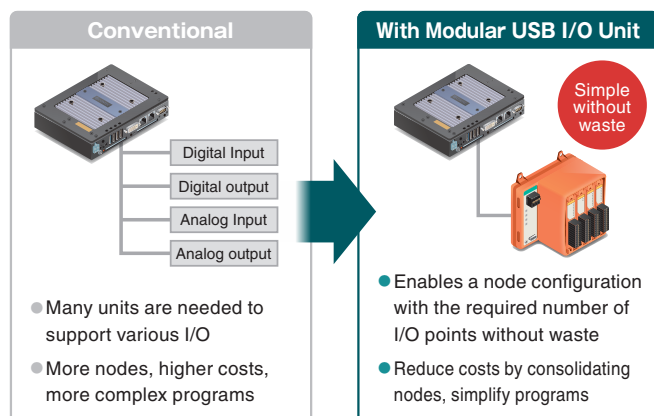
* Separate power supplies available as optional accessories.

Flexible modular method

Unit configuration without waste

Modular method can configure the unit with only the required functions and I/O points

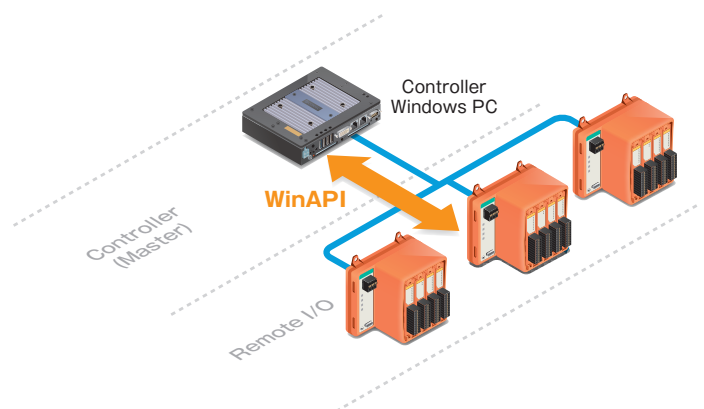
App development becomes easier



Ideal driver for programming


Control from host PC with Windows API

Windows driver available. You can build a remote I/O system with an industrial computer as the master.





Modular USB I/O unit

Product name	Model	Function	External power supply		Dimensions (mm/inch)	Installation Method	Operating Temperature
			Bus-powered	Self-powered			
 Modular USB I/O unit (4 slots)	CC-USB271-CPSN4	4 x I/O module slots	Not required	12 to 24VDC	110/4.33(W) x 74.8/2.95(D) x 95/3.74(H) (Excluding protrusions)	35mm DIN Rail Screw	-20 to 60°C / -4 to 140°F *1

*1 The operating temperature is from -20°C to 55°C (-4°F to 131°F) when the unit is wall mounted by rolling left/right 90° or when the unit put on placed flat on the table.

I/O Modules

Digital Input Modules	
Model	Input
CPSN-DI-08L	8ch Opto-coupler isolated input Supports current sink (negative logic) or source (positive logic) output
CPSN-DI-08BL (Built-in 12V DC power supply)	8ch Opto-coupler isolated input Supports current sink (negative logic) output
CPSN-DI-16BCL (External 12 to 24 VDC power supply / Built-in 12V DC power supply)	16ch Opto-coupler isolated input Supports current sink (negative logic) or source (positive logic) output With simple counter function

Digital Output Modules	
Model	Output
CPSN-DO-08L	8ch Opto-coupler isolated open collector output Current sink type (negative logic)
CPSN-DO-08BL (Built-in 12V DC power supply)	8ch Opto-coupler isolated open collector output Current sink type (negative logic)
CPSN-DO-08RL	8ch Opto-coupler isolated output Current source type (positive logic)
CPSN-DO-08BRL (Built-in 12V DC power supply)	8ch Opto-coupler isolated output Current source type (positive logic)

Digital Input and Output Modules	
Model	Output
CPSN-DIO-08SL	Bidirectional: 8ch (Each channel can be used as input channel or output channel) For input: Opto-coupler isolated input. Supports current sink (negative logic) output. For output: Opto-coupler isolated open collector output. Current sink type (negative logic)

Relay Module	
Model	Output
CPSN-RRY-4PCA	4ch relay contact (form a contact) output

Analog Input Modules					
Model	Input Format*1	No. of Input Channels	Resolution	Input Voltage Range*1	Input Current Range*1*2
CPSN-AI-1208LI	Single-end input or differential input	8ch(single-end input) / bus isolation	12bit	±10V, ±5V, ±2.5V, 0 to 10V	±20mA
CPSN-AI-2408LI		4ch(differential input) / bus isolation	24bit	±10V, ±5V, ±2.5V, 0 to 10V, 0 to 5V	±20mA, 0 to 20mA

*1 All input channels are assigned for the same input format and input range. *2 Current input is only for differential input.

Analog Output Module					
Model	Output Format	No. of Output Channels / Isolation	Resolution	Output Voltage Range	Output Current Range
CPSN-AO-1602LC	Voltage / current output	2ch / Channel isolated	16bit	±10V, ±5V, 0 to 10V, 0 to 5V	0 to 20mA

* Each channel can be set for different output format and output range independently.

Counter Module		
Model	Input	Output
CPSN-CNT-3201I	Phase-A/UP 1-ch, Phase-B/DOWN 1-ch, Phase-Z/CLR 1-ch General input 1-ch, Opto-coupler isolated inputs	Match signal output 1-ch Opto-coupler isolated open collector output

Options

Embedded power supply units that can be mounted on a DIN rail				
Model	Rated Voltage Input Range	Rated Output Voltage	Rated Output Current	Rated Power
CPS-PWD-30AW24-01	100 to 240V (50 to 60Hz)	24VDC	1.3A (Max)	30W
CPS-PWD-90AW24-01	100 to 240V (50 to 60Hz)	24VDC	3.8A (Max)	90W

* DC cable and a 3-pin I/O connector are included. * AC power cable is not included. An optional AC power is available from Contec (IPC-ACC03E3).

AC Power Cable			
Model	Rated Voltage and Current	Cable	Terminals
IPC-ACC03E3	125VAC 7A	2m	3-pole round termina

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