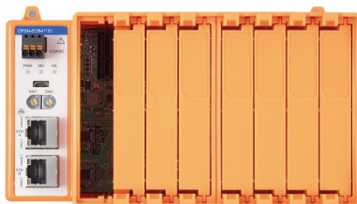


CONPROSYS nano Series
 Remote I/O Model CPU Unit (EtherNet/IP, 4slot)
CPSN-EOB471EI-41
 Remote I/O Model CPU Unit (EtherNet/IP, 8slot)
CPSN-EOB471EI-81



CPSN-EOB471EI-41



CPSN-EOB471EI-81

Features

I/O module expansion

With this product, you can freely add I/O modules to match the necessary functions from among the varied collection of CONPROSYS nano series I/O modules.

Easy installation and removal of I/O modules

I/O modules can be installed and removed without any tools.

Flexible network configuration

The two built-in Ethernet ports can be configured in a star, tree, or line topology.

Compatible with CONPROSYS PAC Series

By combining it with our PAC Series, you can build an EtherNet/IP system consisting entirely of Contec devices.

Adaptable to a wide range of temperature between -20 and +60°C

The product is capable of operating in the temperature between -20 and + 60°C. It can be installed in the various environments.

Installation easy with a two-piece terminal on DIN or with screws

Regarding the power connector, the terminal connector can be removed without a screwdriver. Even when a malfunction occurs, this product can be replaced in a short length of time. Furthermore, as the product is mounted on the DIN rail, removing and replacing are easy as well. This product can also be installed with screws, so it supports a wide range of installation situations.

Compact Design (CPSN-EOB471EI-41 only)

Regarding the power connector, the terminal connector can be removed without a screwdriver. Even when a malfunction occurs, this product can be replaced in a short length of time. Furthermore, as the product is mounted on the DIN rail, removing and replacing are easy as well. This product can also be installed with screws, so it supports a wide range of installation situations.

Included Items

Product [CPSN-EOB471EI-41 or CPSN-EOB471EI-81] ...1

Power Connector ...1(Attached to the product)

Blank panel...3(or 7) *1 (Attached to the product)

Please read the following...1

*1 CPSN-EOB471EI-81 contains 7 pieces.

* This product is verified in conformity with our recommended power supply. In case you use other power supplies, thus, it may not be able to fulfil certification requirements. Please see the CONTEC website regarding power supply recommendation (<https://www.contec.com/>).

This product is a CPU unit compatible with the EtherNet/IP protocol.

Equipped with 4 (or 8) expansion slots, it allows you to build flexible EtherNet/IP Adapter configurations by combining CONPROSYS nano Series I/O modules to suit your functional requirements.

You can use it for applications such as semiconductor and flat panel display (FPD) manufacturing equipment, machine equipment, test benches, conveying systems, and more.

* Specifications, color and design of the products are subject to change without notice.

* The contents in this document are subject to change without notice.

* Visit the CONTEC website to check the latest details in the document.

* The information in the data sheets is as of April, 2026.

Specifications

Function specification

Item		CPSN-EOB471EI-41	CPSN-EOB471EI-81
LAN	Transmission standard	100BASE-TX	
	The number of channels	2 port	
	Connector	RJ-45 Connector	
	LED	Act (Orange) / Link (Green)	
EtherNet/IP	Supported connection	Exclusive Owner	
	RPI	4 - 10000ms	
	Input data size	0 - 256 bytes	
	Output data size	0 - 256 bytes	
Expansion slot	Number of slots	4 Slot	8 Slot
	Maximum power supply	12 - 24V 200mA, 5V 250mA, 3.3V 200mA (per slot)	
	Number of insertions/removals	50 times (min)	
LED	PWR(Green/Orange) / MS(Green/Red) / NS(Green/Red)		
Switch	Rotary switch, Push switch		
Power supply*1	Rated input voltage	12 - 24VDC	
	Input voltage range	10.8 - 30VDC	
	Power consumption	<CPU Unit alone *2> 24V 0.05A (Typ), 0.07A (Max), 12V 0.09A (Typ), 0.12A (Max) <I/O Module> 24V 1.3A (Max), 12V 1.7A (Max)	<CPU Unit alone *2> 24V 0.05A (Typ), 0.07A (Max), 12V 0.09A (Typ), 0.12A (Max) <I/O Module> 24V 1.8A (Max), 12V 2.6A (Max)
	Connector	2 pieces 3.5mm pitch 3-pin Terminal (V+, V-, FG)	
	Applicable wire	AWG24 - 16	
Surge protection element	Interactive TVS Diode Stand off voltage : ±30V, Peak pulse power : 400W (1ms)		
Physical dimensions (mm)	110(W) x 74.8(D) x 95(H)mm (not include projection)	179(W) x 74.8(D) x 95(H)mm (not include projection)	
Weight	250g	350g	
Installation method	Quick installation on a 35 mm DIN rail Vertical installation with screws *3		

*1 Use power cable within 3meters

*2 With no expansion slot load.

*3 Commercially available screws are required.

Installation Environment Requirements

Item	CPSN-EOB471E1-41	CPSN-EOB471E1-81
Operating ambient temperature	Vertical installation : -20 - +60°C Vertical installation with an angle of 90° to the right/left, Horizontal installation : -20 - +55°C	Vertical installation : -20 - +60°C Vertical installation with an angle of 90° to the left, Horizontal installation : -20 - +55°C Vertical installation with an angle of 90° to the right : -20 - +50°C
Operating ambient humidity	10 - 90%RH (No condensation)	
Non-operating ambient temperature	-20 - +60°C	
Non-operating ambient humidity	10 - 90%RH (No condensation)	
Floating dust particles	Not to be excessive	
Corrosive gases	None	
Line-noise resistance	Line noise	AC Line/±2kV *4 (IEC61000-4-4 Level 3, EN61000-4-4 Level 3) Signal Line /± 1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
	Static electricity resistance	Touch /±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Air /±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	10 - 57Hz *5 /semi-amplitude vibration 0.15mm, 57 - 150Hz/2.0G 40minutes each in X, Y, and Z directions (JISC 60068-2-6-compliant, IEC60068-2-6-compliant)
Shock resistance	15G half-sine shock for 11ms in X, Y, and Z directions (JISC 60068-2-27 -compliant, IEC 60068-2-27 -compliant)	
Grounding	Class D grounding (previous class 3 grounding), SG-FG/ non-conduction	
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA, ISED	

*4 When an optional power product is used.

*5 When an optional power product is used : 10 - 55Hz (See the manual of optional power product for details)

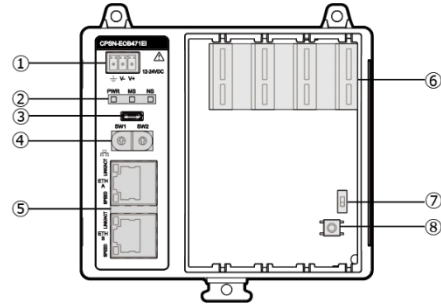
Optional Products

Product Name	Model type	Description
DIN rail fitting power supply	CPS-PWD-30AW24-01	30W (Input: 100-240VDC, Output: 12VDC 1.3A)
	CPS-PWD-90AW24-01	90W (Input: 100-240VDC, Output: 12VDC 3.8A)
Digital I/O Modules	CPSN-DI-08L	with isolated digital input (input 8 channels, sink input / source input)
	CPSN-DI-08BL	with isolated digital input (input 8 channels, sink input, built-in power supply)
	CPSN-DI-16BCL	with isolated digital input (input 16 channels, sink input / source input, built-in power supply)
	CPSN-DO-08L	with isolated digital output (output 8 channels, sink output)
	CPSN-DO-08BL	with isolated digital output (output 8 channels, sink output, built-in power supply)
	CPSN-DO-08RL	with isolated digital output (output 8 channels, source output)
	CPSN-DO-08BRL	with isolated digital output (output 8 channels, source output, built-in power supply)
	CPSN-DO-16L	with isolated digital output (output 16 channels, sink output)
	CPSN-DO-16BL	with isolated digital output (output 16 channels, sink output, built-in power supply)
	CPSN-RRY-4PCA	with relay contact output (4channels)
	CPSN-DIO-08SL	with isolated digital input/output (input 8 channels, output 8 channels, sink)
	CPSN-DI-08FCL	with isolated digital input (input 8 channels, sink input, Synchronization function)
	CPSN-DI-08FCRL	with isolated digital input (input 8 channels, source input, Synchronization function)
	CPSN-DO-08FPW	with isolated digital output (output 8 channels, sink output / source output, Synchronization function)
	Analog I/O Modules	CPSN-AI-1208U
CPSN-AI-2408U		with isolated analog input (24-bit voltage input / current input, SE Input 8 channels / Differential Input 4channels)
CPSN-SSI-4C		with isolated thermocouple input (4channels)
CPSN-AO-1602LC2		with isolated analog output (16-bit voltage output / current output, 2 channels, Synchronization function)
CPSN-AI-1604U		with isolated analog input (16-bit voltage input /current input, Differential Input 4 channels)
CPSN-AO-1204U		with isolated analog output (12-bit voltage output / current output, 4 channels, Synchronization function)
Counter Modules	CPSN-CNT-3201I2	with isolated counter input (32-bit, 1channel, Synchronization function)
Serial Communication Modules	CPSN-COM-1PD	with isolated RS-422A/485 serial communication (1channel)

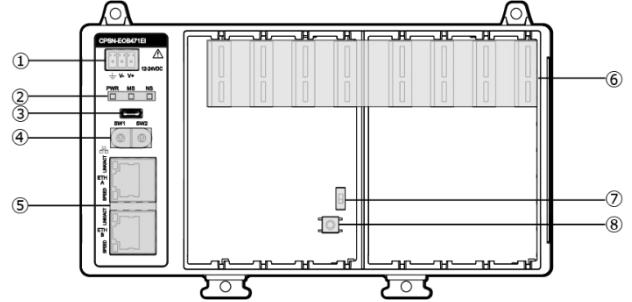
* Visit the CONTEC website regarding information on the optional products.

Component Name

CPSN-EOB471E1-41



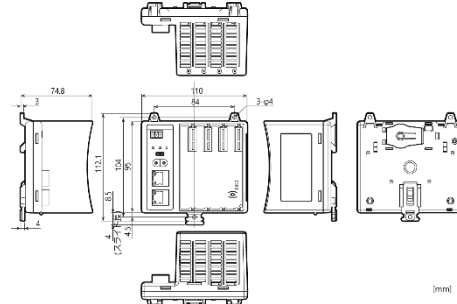
CPSN-EOB471E1-81



No.	Name	Function
1	Power Connector	Use the power connector (3 pin connector), included in this package.
2	LED Indicator	Indicates the status of the product.
3	microUSB port	Reserved
4	Rotary switch	Used to set the IP address.
5	LAN	LAN Port
6	Expansion slot	These are used to supply power to and communicate with I/O modules
7	Slide switch	Reserved
8	Push switch	Used to initialize the SII configuration area and module settings.

Physical Dimensions

CPSN-EOB471E1-41



CPSN-EOB471E1-81

