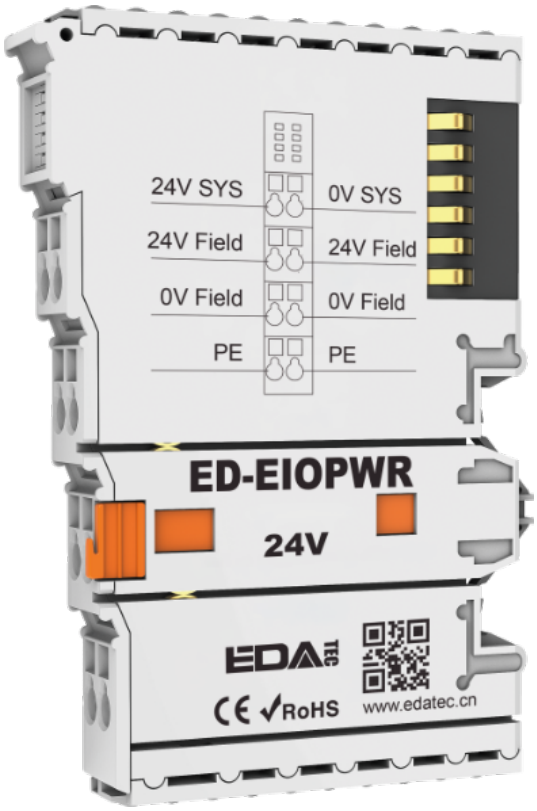


Power Expansion Supply Module

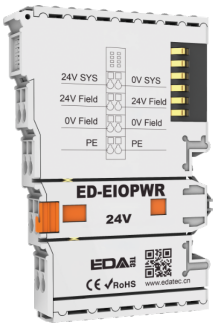
Datasheet

by EDA Technology Co., Ltd

built: 2025-12-22

Power Expansion Supply Module

- Power expansion supply
- Input DC 24V system power
- DC 5V power expansion
- Plug-in construction, DIN-rail installation
- PT removable terminal block for screwless wiring



Specifications

Power Supply	
Input Voltage	DC 24V (±20%)
Bus Output Voltage	DC 5V (±5%)
Bus Output Current	2A (Max)

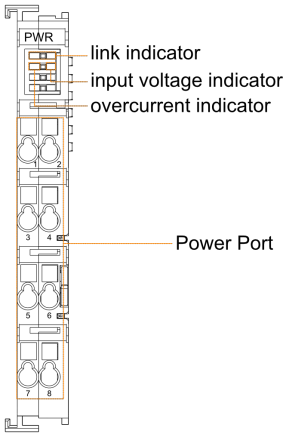
Protection Parameter	
System Isolation Voltage	AC500V
Reverse Polarity Protection	Support
Overcurrent Protection	System power: support I/O power: not support
Overvoltage Protection	Support

Mechanical Characteristics	
Dimensions	100mm x 67.6mm x 14.8 mm
Weight	About 51g
Wiring Specifications	0.2mm² ~ 1.5mm²

Mechanical Characteristics	
Wiring Method	Screwless
Installation	DIN-rail installation

Environmental & Regulatory	
Operating Temperature	-10℃ ~ 55℃
Storage Temperature	-20℃ ~ 85℃
Ambient Humidity	5% ~ 95% (non-condensing)
Air Pressure	≥ 795 hPa (altitude ≤ 2000 m), compliant with IEC 61131-2
Overvoltage Categories	I
Certifications	CE and RoHS

Interface Definition



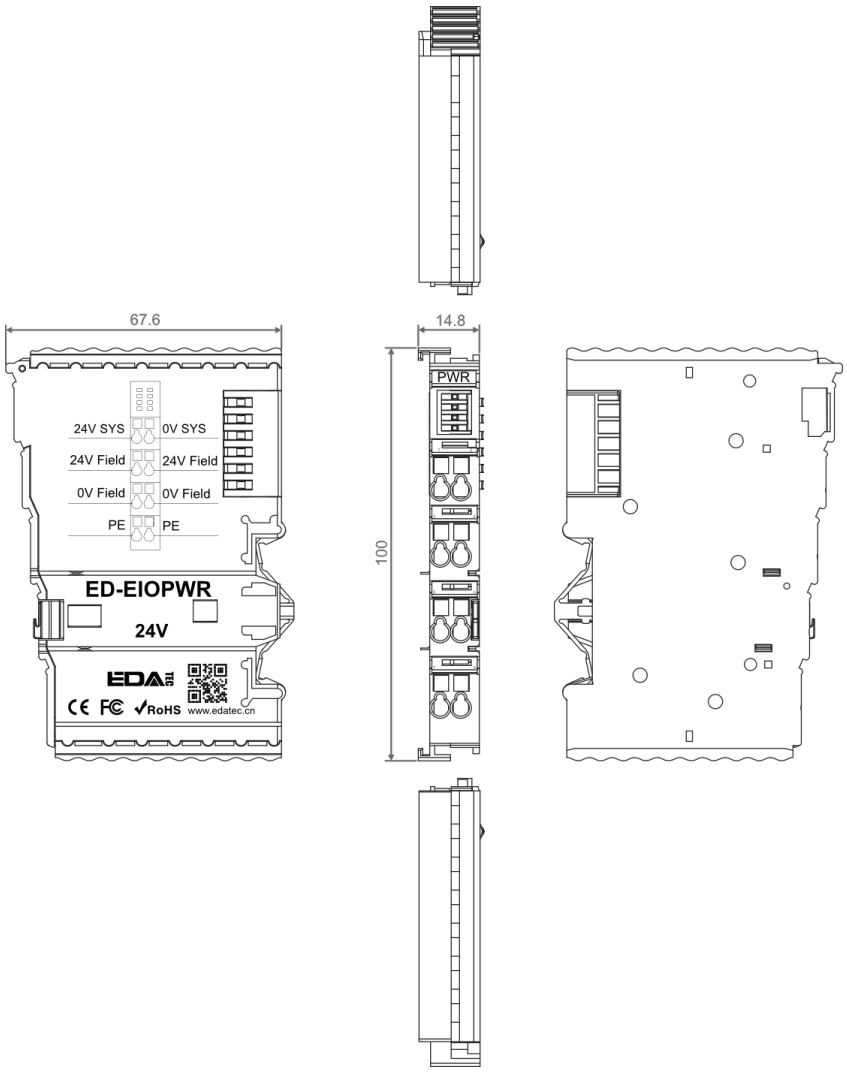
System Power Indicator	
Link	1 x green link indicator, using to see if the connection of common terminal is normal.
Input Voltage	1 x green input voltage indicator, using to see if the input voltage is normal.
Overcurrent	1 x red overcurrent indicator, using to see if the coupler exceeds the maximum operating current.

Power Port			
Pin No.	Description	Pin No.	Description
1	24V SYS	2	24V SYS
3	24V Field	4	24V Field
5	0V Field	6	0V Field

Power Port			
7	PE	8	PE

Dimensions

Unit: mm



Ordering Code

Model	Description
ED-EIOPWR	Power Expansion Supply Module

Adapted PLC Unit or EtherCAT Coupler

Model	Description
ED-PLC2010	EtherCAT Master based on CODESYS
ED-EIOBRG-EC	EtherCAT Coupler

Packing List

- 1 x Power Expansion Supply Module

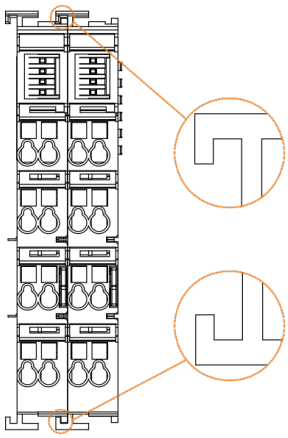
Installation

> TIP
>
> - DIN-rail is not included in the box, the following is intended as an installation illustration only.
> - Before you start installing, please turn off the power to the module.
> - If you encounter a situation where the module cannot be installed, please do not force the installation to avoid damaging the module.

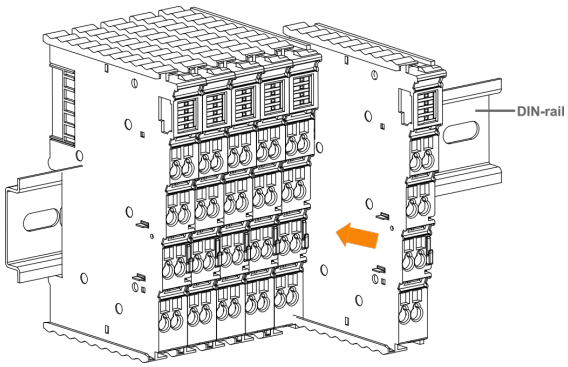
Steps

The following is an example of the installation of an 8-terminal module only.

1. Align the notches in the I/O module.



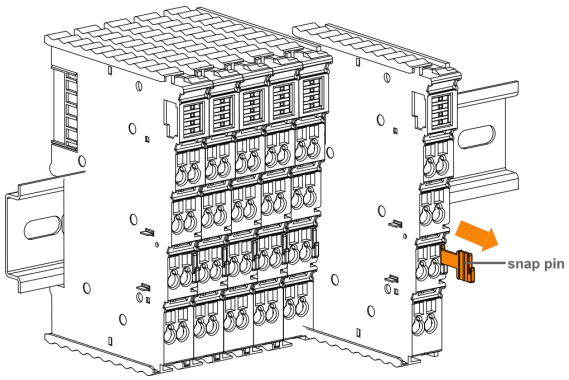
2. Secure the I/O module to the DIN-rail by pushing the I/O module in the direction of the arrow onto the DIN snap pin.



Dismantling

> TIP
>
> - Before you start installing, please turn off the power and disconnect the cable to the module.
> - If you encounter a situation where the module cannot be installed, please do not force the installation to avoid damaging the module.

Steps

The following is an example of the dismantling of an 8-terminal module only.

1. Hold the snap pin of the I/O module by hand and then pull it out in the direction of the arrow to disengage the module from the DIN-rail.