

## EZIAIDC88

8-ch Analog Input

8-ch Digital Input

8-ch Digital Output

Industrial DevicePort I/O



### Introduction

SUNIX EZIAIDC88 utilizes SUNIX EAZInet networking technology to quickly expand 8 analog Input and 8 digital input and 8 digital output signals via Ethernet, allowing users to conveniently implement automation, swiftly incorporate the Internet of Things into their businesses, and raise their competitiveness.

SUNIX EZIAIDC88 does not require IP setting and supports full network topology, which substantially lightens the burden of network planning and management, shortens the hardware deployment process, and enables subsequent expansions to be executed more flexibly.

SUNIX EZIAIDC88 is capable of automatic device enumeration, which allows the console terminal to quickly search for terminal devices, thus enabling plug-and-play functionality. This greatly improves the convenience of system development for users.

### Features

- 8-ch analog-in and 8-ch digital-in and 8-ch digital-out
- Built-in with SUNIX High-Performance Ethernet-IO controller
- Built-in dual 10/100 Ethernet ports for Ethernet cascading capability
- IP setting not required, enabling convenient and quick deployment configuration
- Supports daisy chain network topology for flexible and quick I/O expansion
- Automatic device enumeration mechanism facilitates terminal device networking
- Supports wall or rail (DIN) mounted

## Common Specifications

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### LAN

Ethernet: 2-port 10/100 Mbps RJ45 ports

Protection: 1.5 KV magnetic isolation

Protocols: SUNIX EAZInet

### Power Requirements

Input Voltage: 5 to 48 VDC

Connector: 6 PIN Terminal Block

\*Support 2 ports input power & relay output

\*Support OVP

Note: the high-voltage power input priority first ,when multiple power inputs

### Environmental Limits

Operating Temperature:

-40 to 75°C (-40 to 167°F)

Storage Temperature:

-40 to 85°C (-40 to 185°F)

Operation Humidity:

10 to 95% (non-condensing)

### Certifications

- CE
- FCC
- VCCI
- BSMI

## DI/O specifications

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### Digital Input

Channels: 8

Dry Contact:

- Logic Level 0: Open
- Logic Level 1: Close to GND

Wet Contact:

- Logic Level 0: 0 ~ 3V
- Logic Level 1: 10 ~ 50V

Input Resistance: 10 k $\Omega$

Isolation: 1k VDC

Over-Voltage Protection: 70VDC

### Digital Output

Channels: 8

Output Type: NPN

Output Voltage Range: 3.5-30V

Normal Output Current: 500mA per Channel

Isolation: 1k VDC

Startup Value Setting: Yes

Communication Safety Value Setting: Yes

Connector Pin Assignment: refer to Quick Installation Guide

## AI specifications

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### Analog Input

Channels: 8

Voltage Range:  $\pm 100$  mV  $\pm 500$  mV,  
 $\pm 1$  V,  $\pm 5$  V,  $\pm 10$  V  
 $0 \sim 100$  mV,  $0 \sim 500$  mV,  
 $0 \sim 1$  V,  $0 \sim 5$  V,  $0 \sim 10$  V

Resolution: 16-bit

Accuracy:  $\pm 0.1\%$  FSR

Span Drift:  $\pm 25$  ppm/ $^{\circ}$ C

Zero Drift:  $\pm 6$   $\mu$  V/ $^{\circ}$ C

Input Voltage Protection: Built-in TVS/ESD Protection

Current Range:  $\pm 20$ mA,  $4 \sim 20$ mA

Sampling Rates: 20 Samples/Second Total

### Input Impedance:

- $2\text{M}\Omega$  :  $\pm 100$ mV,  $\pm 500$ mV,  $\pm 1$ V,  
 $0 \sim 100$ mV,  $0 \sim 500$ mV,  $0 \sim 1$ V
- $2.0\text{M}\Omega$  :  $\pm 5$ V,  $\pm 10$ V,  
 $0 \sim 5$ V,  $0 \sim 10$ V
- $120\Omega$  :  $\pm 20$ mA,  $0 \sim 20$ mA

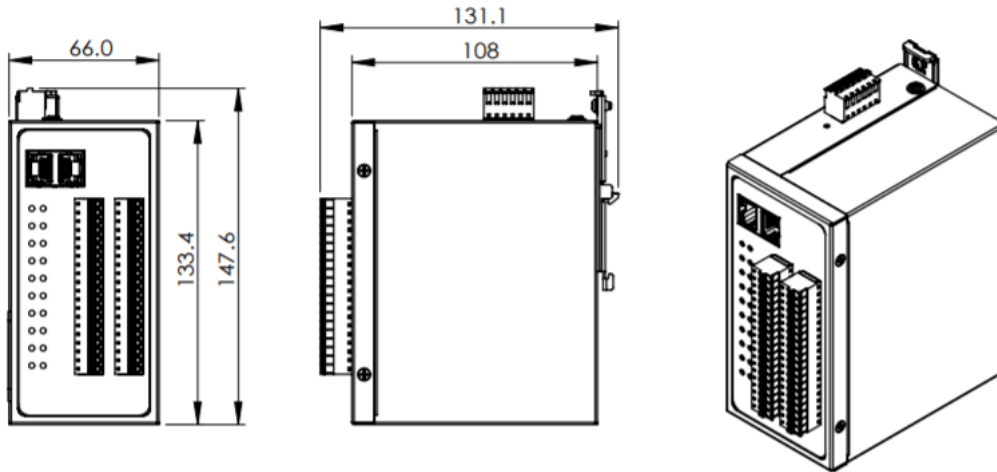
Connector Pin Assignment: refer to Quick Installation Guide

## Physical Characteristics

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Dimension: 66.0 x 147.6 x 131.1 mm (2.60 x 5.81 x 5.16 in)

Weight: 755g +-5%



## Package contents

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- SUNIX Industrial DevicePort I/O product x1
- Quick Installation Guide x1

### Headquarters

#### Taiwan

Sunix Co., Ltd.

Tel : +886-2-8913-1987

Fax : +886-2-8913-1986

Website : [www.sunix.com](http://www.sunix.com)

E-mail : [info@sunix.com](mailto:info@sunix.com)

#### America

SUNIX USA, INC.

Tel : +1 (626) 765-4031

Fax : +1 (909) 594-8906

Website : [www.sunix.com](http://www.sunix.com)

E-mail : [sales.sunixusa@sunix.com](mailto:sales.sunixusa@sunix.com)

#### Germany

Sunix Vertriebs GmbH

Tel : +49(0)6995-20 9506

Fax : +49(0)6995-20 8267

Website : [www.sunix.com](http://www.sunix.com)

E-mail : [info@sunix-euro.de](mailto:info@sunix-euro.de)

#### China

Shanghai Office

Tel : +86-21-6469-1670

Fax : +86-21-6468-8346

Website : [www.sunix.com.cn](http://www.sunix.com.cn)

E-mail : [info@sunix.com.cn](mailto:info@sunix.com.cn)

Beijing Office

Tel : +86-10-65308429

Fax : +86-10-65308421

Shenzhen Office

Tel : +86-07-5533500418