

EZIAIDI8F

8-ch Analog Input

16-ch Digital Input

Industrial DevicePort I/O



Introduction

SUNIX EZIAIDI8F utilizes SUNIX EAZInet networking technology to quickly expand 8 analog Input and 16 digital input signals via Ethernet, allowing users to conveniently implement automation, swiftly incorporate the Internet of Things into their businesses, and raise their competitiveness.

SUNIX EZIAIDI8F 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 EZIAIDI8F 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 16-ch digital-in
- 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

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 specifications

Digital Input

Channels: 16

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 Ω

Isolation: 1k VDC

Over-Voltage Protection: 70VDC

Connector Pin Assignment: refer to Quick Installation Guide

AI specifications

Analog Input

Channels: 8

Voltage Range: ± 100 mV ± 500 mV,
 ± 1 V, ± 5 V, ± 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: ± 25 ppm/ $^{\circ}$ C

Zero Drift: ± 6 μ V/ $^{\circ}$ C

Input Voltage Protection: Built-in TVS/ESD Protection

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

Sampling Rates: 20 Samples/Second Total

Input Impedance:

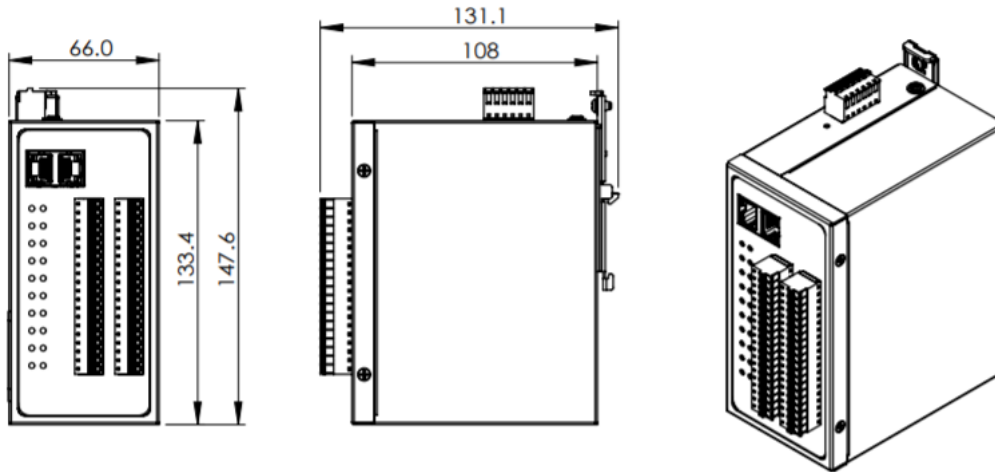
- $2\text{M}\Omega$: ± 100 mV, ± 500 mV, ± 1 V,
 $0 \sim 100$ mV, $0 \sim 500$ mV, $0 \sim 1$ V
- $2.0\text{M}\Omega$: ± 5 V, ± 10 V,
 $0 \sim 5$ V, $0 \sim 10$ V
- 120Ω : ± 20 mA, $0 \sim 20$ mA

Connector Pin Assignment: refer to Quick Installation Guide

Physical Characteristics

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

Weight: 755g +-5%



Package contents

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

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