

iDCS-8830

8-slot Redundant Distributed Modular I/O System with Modbus/TCP Server

Features

- Modbus/TCP Server
- PWR/Comm./IO module redundant design
- Supports 8 I/O module slots (4 sets of I/O redundancy)
- Auto parameter setting when replacement
- Hot Swap for all modules

Introduction

The iDCS-8830 system is composed of 2 redundant power modules, 2 redundant communication modules and 8 I/O modules. It is designed as a modular remote redundant I/O system. The power module supports 24V_{DC} (±10%) power input, the communication module provides Modbus/TCP Server function, and the I/O modules can be set to 8 single or up to 4 sets of dual, supporting a variety of different input/output signal types for various applications. The I/O modules include analog current and voltage input/output, digital input/output, TC/RTD temperature measurement, counter and HART communication functions, etc. The I/O module can be quickly connected to on-site signals and wired for testing through the terminal board. In addition, all modules of iDCS-8830 are equipped with hot-swap replacement and automatic parameter setting functions to improve maintenance convenience.

Specifications

FPM-D2440		
Voltage input		24 V_{DC} ±20%
Voltage output		5 V_{DC} ±2%, 24 V_{DC} (Depending on input power source)
Current output		5 V_{DC} : 7.5A Max. 24 V_{DC} : 5A Max.
Insulation resistance		1000 MΩ
Short protection		Yes (Continuous)
Redundancy		Yes
Isolation		1500 V_{DC} Min.
Operating Temperature		-25 ~ 75 °C
Certification		
EMC	Emission	IEC 61000-6-4
	Immunity	IEC 61000-6-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-6 IEC 61000-4-9 IEC 61000-4-10 IEC 61000-4-12

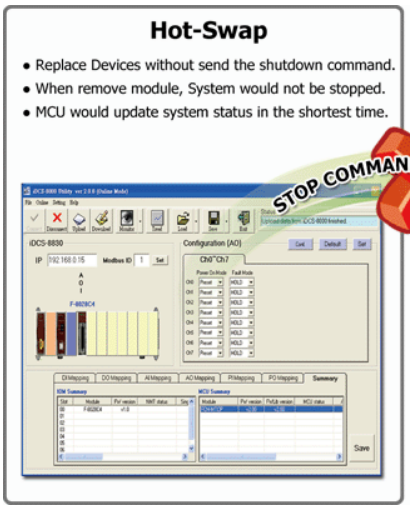
Specifications

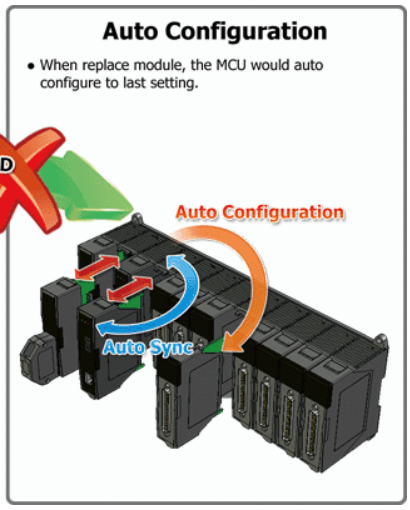
FCM-MTCP		
LAN Port		10/100BASE-TX (Auto negotiating, Auto MDIX)
Protocol		Modbus/TCP Server
Redundant		Yes
LED indicators		1 Power, 2 Fault, 1 Link/Active/Speed
Isolation		3000 V_{DC} (LAN port and F.G) 1000V_{DC} (LAN port and backplane)
Operating Temperature		-25 ~ 75 °C
Certification		
EMC	Emission	IEC 61000-6-4
	Immunity	IEC 61000-6-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-6 IEC 61000-4-9 IEC 61000-4-10 IEC 61000-4-12

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Feature

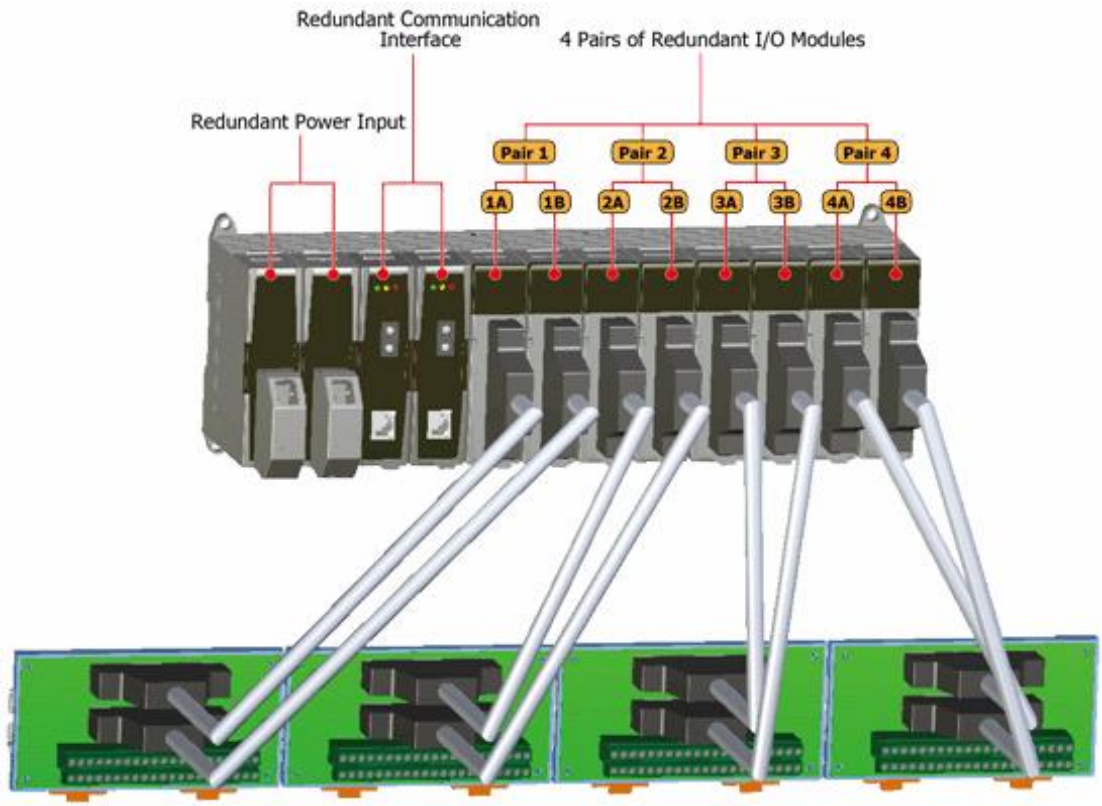
The redundant I/O design of iDCS-8830 improves on-site monitoring security requirements, provides a variety of analog I/O, digital I/O, temperature, pulse and HART communications, and supports hot-swap and automatic parameter setting functions.



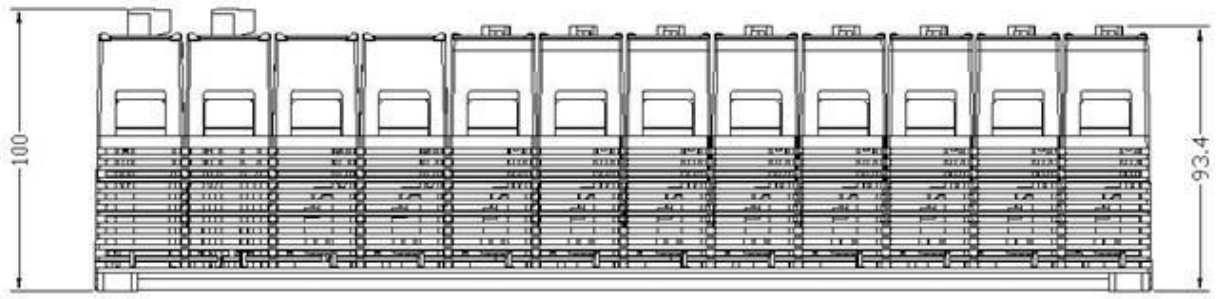




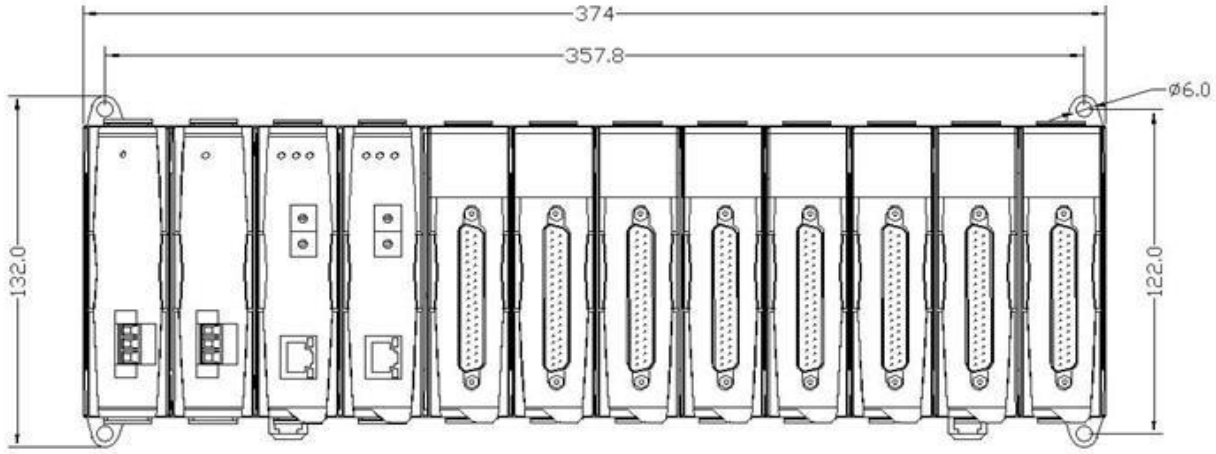
Appearance



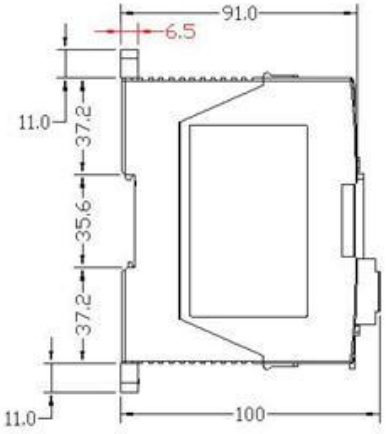
Dimension (unit: mm)



Top View



Front View



Left Side View

Ordering Information

iDCS-8830 CR	8-slot Redundant Distributed Modular I/O System with Ethernet (RoHS) Includes 2x FPM-D2440 and 2x FCM-MTCP

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