



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 ΜΩ	
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

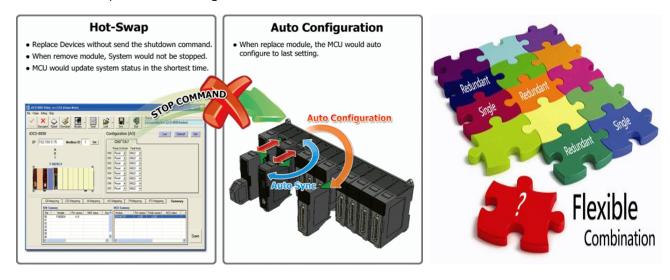
FCM-MTCP			
LAN Port		10/100BASE-TX	
		(Auto negotiating, Auto MDIX)	
Protocol		Modbus/TCP Server	
Redundant		Yes	
LED indicators		1 Power, 2 Fault, 1 Link/Active/Speed	
Isolation		3000 V _{DC} (LAN port and F.G)	
		1000V _{DC} (LAN port and backplane)	
Operating Temperature		-25 ~ 75 °C	
Certification			
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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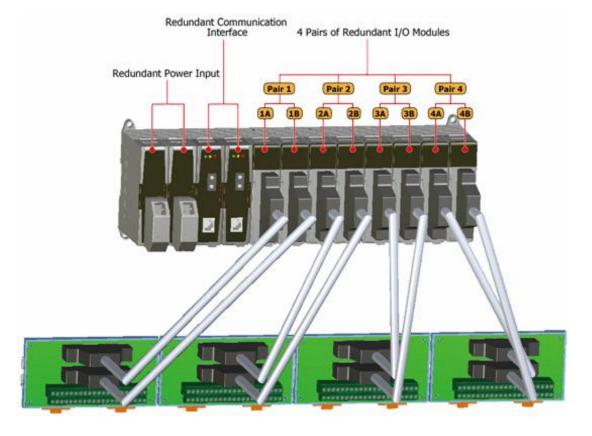


Feature

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.



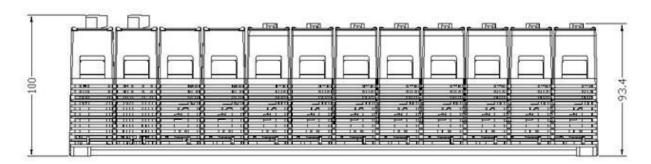
Appearance



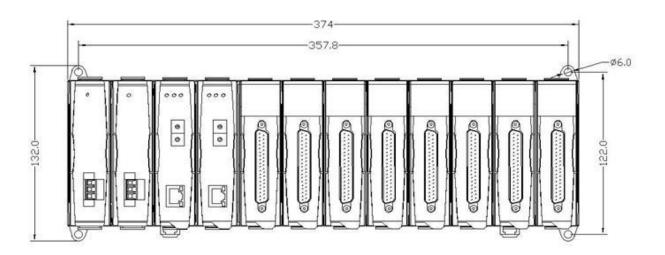
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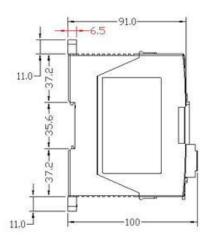
■ Dimension (unit: mm)



Top View



Front View



Left Side View

Ordering Information

iDCS-8830 CR	8-slot Redundant Distributed Modular I/O System with Ethernet (RoHS)	
1DC3 0030 CK	Includes 2x FPM-D2440 and 2x FCM-MTCP	

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