ICP Electronics
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I-8411/ I-8811
I-8411-G/ I-8811-G
Serial embedded controller

Model: I-8411

Model: I-8811

Model: I-8411-G

Model: I-8811-G

Introduction

The I-8411/ I-8811 are serial embedded controller with 4/8 I/O slots. Both are equipped with MiniOS7,an embedded OS similar to DOS that is developed by ICPDAS Co., LTD.

The MiniOS7 can boot up in a very short time (0.4~0.8 second).It has built-in hardware diagnostic function, and supports the full functions to access all 8K and 87K series I/O modules, such as DI, DO, DIO, AI, AO, Counter/Frequency, motion modules etc.

The I-8411/I-8811 back plane is equipped four serial COM Port, they include RS-232 and RS-485 ports and can be used in remote data acquisition and control applications, including environment monitoring, power management and factory automation. By using S-256 (256 KBytes) or S-512 (512 KBytes)battery backup SRAM, they provide data logger storage function.

Note: S256 and S512 are optional accessories.

Features

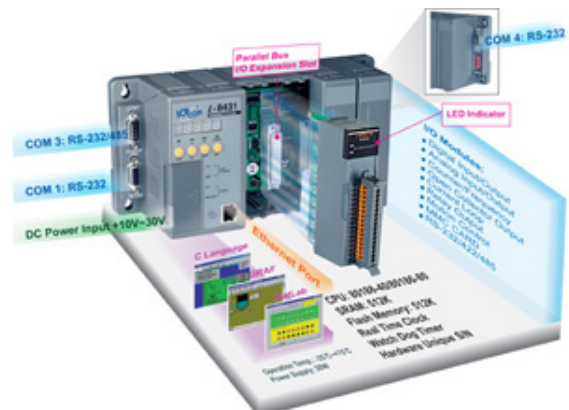Provide multi Serial Port interface on back plane.
COM1: RS-232
COM2: RS-485
COM3: RS-232/RS-485
COM4: RS-232

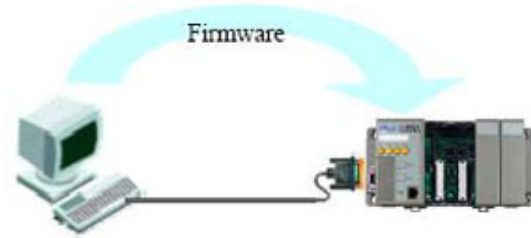Provides a hardware serial number or an ASICKey to protect designated systems.

The built-in watchdog circuit will reset the CPU module if a failure occurs in either the hardware or software, allowing the controller system more reliable and stable in harsh and noisy environments.

Dual Bus designed to supports I-8K and I-87K series I/O modules, such as DI/DO, AI/AO, Counter/Frequency modules

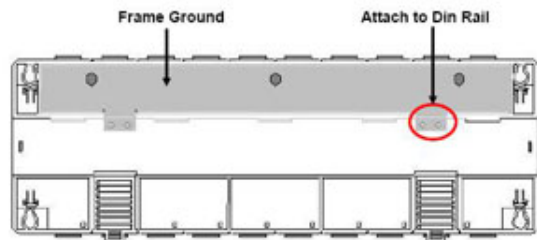Compact I/O Expansion slot allows the quick installation of various

8K and 87K I/O modules

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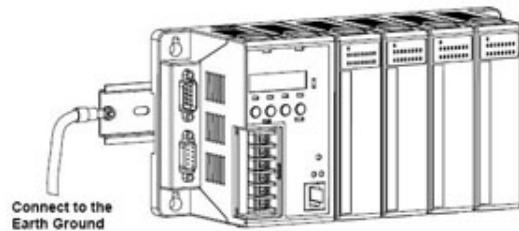www.icp-australia.com.au

Firmware updated via the RS-232 port

Ventilated housing designed to operate between –25°C to +75°C

Using DIN rail clips or Screw poles around the corners allows the control unit to be easily mounted on the control box

Frame Ground provides a path for bypassing ESD, allowing enhanced static protection (ESD) capability and ensures that the module is more reliable.

Equipped with MiniOS7, ,an embedded OS similar to DOS that is developed by ICP DAS Co., LTD.

Provides full C library functions such as 8K, 87K I/O, 7-segment LED, RTC (real time clock), EEPROM etc.

Specifications

CPU module

CPU	80188 or compatible (8-bit and 40MHz)
SRAM	512KBytes
Flash	512KBytes
EEPROM	2KBytes
NVRAM	Yes
RTC (real time clock)	Yes
Hardware Serial Number	Yes
Built-in Watchdog Timer	Yes
Communicate Interface	
COM 0	Internal communication with the 87K modules

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COM 1	RS-232 (to update firmware)
COM 2	RS-485
COM 3	RS-232/RS-485
COM 4	RS-232
Ethernet Port	-

SMMI

5 - Digit LED Display	Yes
3 - Programmable LED Indicators	Yes
4 - Push Buttons	Yes

I/O expansion slots

8411	4 Slots
8811	8 Slots

Dimensions

8411	230mm x 110mm x 75.5mm
8811	354mm x 110mm x 75.5mm

Operating Environment

Operating Temperature	-25°C to +75°C
Storage Temperature	-30°C to +85°C
Humidity	5 ~ 95%,non-condensing

Power

Protection	Power reverse polarity protection
3KV power isolation	-
Power requirement	10 ~ 30 V/DC
Power supply	20W
Power consumption	I-8411 : 3.9 W I-8811 : 5.1 W

Ordering information

I-8411	I-8411 Embedded Controller
I-8811	I-8811 Embedded Controller
I-8411-G	I-8411 Embedded Controller with gray color
I-8811-G	I-8411 Embedded Controller with gray color

Accessories

S256	**256K** battery backup SRAM module
S512	**512K** battery backup SRAM module
KA-52F	AC100~250V input, DC 24V/1A output, flat type power supply
DIN-KA52F	KA-52F with DIN-Rail mount
DP-665	AC 85 ~ 270 V input, DC 24V/1.7A and 5V/0.5A output power supply
DP-660	24V/1.7A 5V/0.5A Power Supply
DP-1200	24V/5A Power Supply