iP-8411

iP-8811

iP-8441

iP-8841

Features

- 80186, 80 MHz CPU
- C Language Based and MiniOS7 Inside
- Compact and Rugged PAC
- 64-bit Hardware Serial Number
- 4/8 Slots for High Profile I/O Modules
- Dual 10/100M Ethernet Ports
- 4 Serial Ports (RS-232/485)
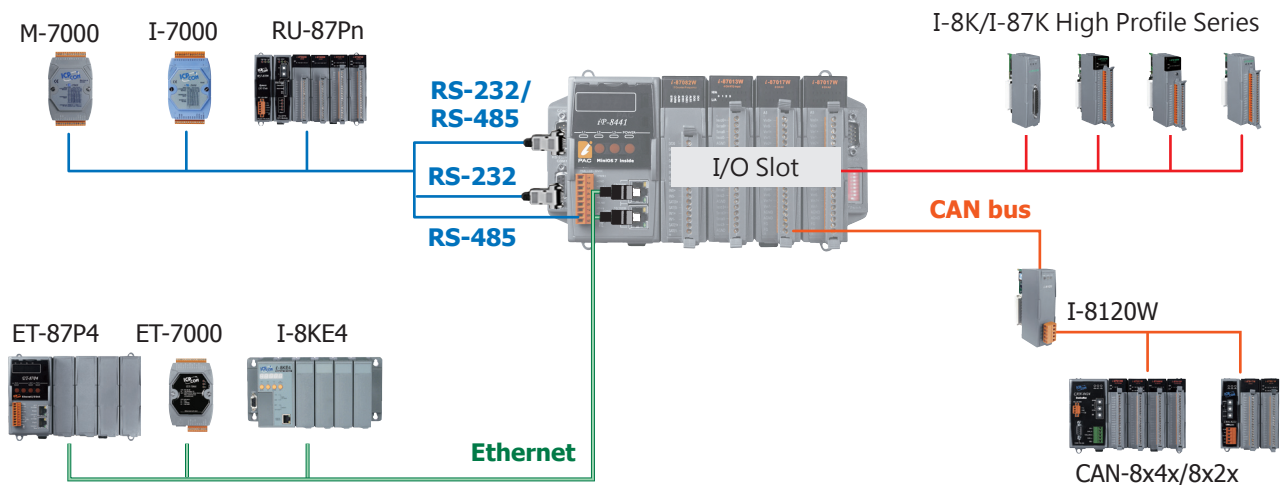- Operating Temperature: -25 ~ +75°C

CE FC RoHS

Introduction

The iPAC-8000 is the compact size PAC(Programmable Automation Controller). It supports a variety of connectivity options including Dual 10/100 Base-TX Ethernet ports, one RS-232/485 port, one RS-485 port and two RS-232 ports, and 4/8 slots for high performance Parallel I/O modules (high profile I-8K series) and Serial I/O modules (high profile I-87K series), etc.

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 iPAC-8000 is designed for industrial monitoring, measurement and controlling. It has redundant power inputs with 1 kV isolation from noise and surges, and a wide range of operating temperature (-25 ~ +75°C). It can work in the harsh and rough environment.

Applications

M-7000   I-7000   RU-87Pn

I-8K/I-87K High Profile Series

RS-232/ RS-485

RS-232

RS-485

I/O Slot

CAN bus

I-8120W

ET-87P4   ET-7000   I-8KE4

Ethernet

CAN-8x4x/8x2x

Specifications

Models	iP-8411	iP-8811	iP-8441	iP-8841
System Software				
OS	MiniOS7 (DOS-like embedded system)			
Program Download Interface	RS-232 (COM1) or Ethernet			
Programmable Language	C Language			
Compilers to create .exe files	TC++ 1.01、TC 2.01、BC++ 3.1 ~ 5.2x、MSC 6.0、MSVC++ (before version 1.5.2)			

📁 Specifications

Models	iP-8411	iP-8811	iP-8441	iP-8841
CPU Module				
CPU	80186 or compatible (16-bit and 80 MHz)			
SRAM	512 KB		768 KB	
Dual Battery Backup SRAM	512 KB; data valid up to 5 years			
Flash	512 KB with write protect switch			
Expansion Flash Memory	microSD socket (can support microSDHC up to 32 GB)			
EEPROM	16 KB			
NVRAM	31 Bytes (battery backup, data valid up to 5 years)			
RTC (Real Time Clock)	Provide second, minute, hour, date, day of week, month, year			
Hardware Serial Number	Yes, 64-bit hardware serial number for software copy protection			
Watchdog Timers	Yes (0.8 second)			
DIP Switch	Yes (8-bits)			
Communicate Interface				
Ethernet	-		RJ-45 x 2, 10/100 Base-TX (Auto negotiating, Auto MDI/MDI-X, LED indicators)	
COM 0	Internal communication with the high profile I-87K series modules in slots			
COM 1	RS-232 (to update firmware) (RxD, TxD and GND); non-isolated			
COM 2	RS-485 (Data+, Data-) with internal self-tuner ASIC; 3000 VDC isolated			
COM 3	RS-232/RS-485 (RS-232: RxD, TxD, CTS, RTS, GND, RS-485: Data+, Data-); non-isolated			
COM 4	RS-232RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); non-isolated			
SMMI				
LED Display	Yes, 5-Digit			
LED Indicators	3 Programmable LED Indicators			
Push Buttons	4			
Buzzer	-		Yes	
I/O Expansion Slots				
Slot Number	4	8	4	8
	For High Profile I-8K and I-87K Modules Only			
Mechanical				
Dimensions (W x L x H)	231 x 132 x 111 mm	355 x 132 x 111 mm	231 x 132 x 111 mm	355 x 132 x 111 mm
Installation	DIN-Rail or Wall Mounting			
Environment				
Operating Environment	-25 ~ +75°C			
Storage Temperature	-30 ~ +80°C			
Humidity	10 ~ 90 % RH, non-condensing			
Power				
Input Range	+10 ~ +30 V_{DC}			
Isolation	1 kV			
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 VDC) for alarm			
Capacity	30 W			
Consumption	6.7 W	7.2 W	6.7 W	7.2 W

📁 Ordering Information

iP-8411 CR	Standard iPAC-8000 with 4 I/O Slots (RoHS)
iP-8811 CR	Standard iPAC-8000 with 8 I/O Slots (RoHS)
iP-8441 CR	Standard iPAC-8000 with 4 I/O Slots and 2 Ethernet Ports (RoHS)
iP-8841 CR	Standard iPAC-8000 with 8 I/O Slots and 2 Ethernet Ports (RoHS)

📁 Accessories

I-7560U CR	USB to RS-232 Converter (Windows 8/8.1) (RoHS)