





μPAC-7186PEX(D)

Standard Palm-sized Serial/Ethernet PAC with 80186-80 CPU, MiniOS7, PoE (7-Segment LED Display)

■ Features

- Built-in High-Performance MiniOS7 from ICP DAS
- Easy-to-use Software Development Tool Kits (Using C language)
- Various Storage Media
 - 512 KB Flash
 - 16 KB EEPROM
- Various Communication Interfaces (Ethernet, RS-232/RS-485)
- 64-bit Hardware Serial Number
- Build-in Watchdog Timer
- I/O Expansion Bus Interface
- Power over Ethernet (PoE, IEEE 802 3af, Class 1)









Introduction

The μPAC-7186PEX(D) is a palm-size programmable automation controller with RS-232/485 and Ethernet communication interfaces. ICP DAS provides easy-to-use software development tool kits (MiniOS7 framework, Modbus libraries). Users can use them to easily integrate serial devices to have Ethernet/Internet communication ability and through the standard Modbus protocol to communicate with SCADA software (Indusoft, ISaGARF, DasyLab, Trace Mode, Citect, iFix, etc.).

For hardware expansion, the µPAC-7186PEX(D) also supports an I/O expansion bus. A cost-effective I/O expansion board with A/D, D/A, D/I, D/O and serial ports is available. Nearly all kinds of I/O functions can be implemented by this bus. But the bus can support only one board. There are more than 50 boards available for μ PAC-7186PEX(D), you can choose one of them to expand hardware features.

The µPAC-7186PEX(D) features true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using a standard category 5 Ethernet cable to receive power from a PoE switch like the NS-205PSE.

Powerful Embedded OS — MiniOS7

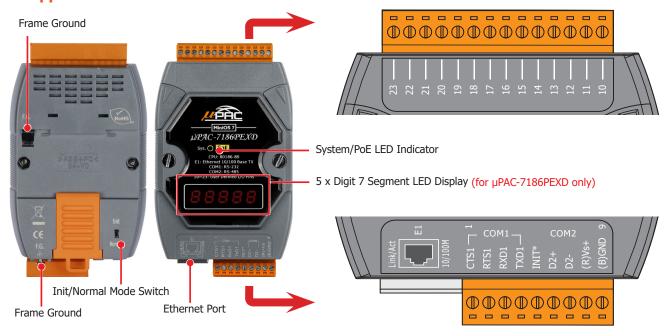


MiniOS7 is the most stable OS used in the last decade. Up to now, several hundred thousand copies with our PACs have been distributed worldwide.

- DOS-like embedded OS
- · Antivirus ability
- · Internet connectivity
- Short boot period (<1 Second)
 - · Less memory resource required
 - Faster watchdog response time

• Libraries & demo programs for various peripherals, devices and remote I/O modules

Appearances



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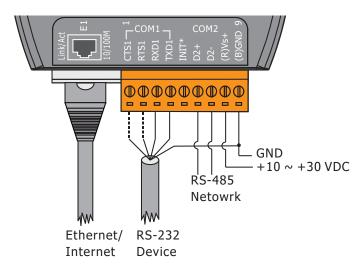
■ Specifications

Model	μ PAC-7186PE X	μPAC-7186PEXD			
Software					
OS	MiniOS7				
Development	C Language				
CPU Module	CPU Module				
CPU	80186 or compatible, 16-bit and 80 MHz				
SRAM	512 KB				
Flash	512 KB				
EEPROM	16 KB				
NVRAM	31 Bytes				
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year				
64-bit Hardware Serial Number	Yes				
Watchdog Timer	Yes				
Display					
Туре	-	5 x Digit 7 Segment LED Display			
LED Indicator					
Status	1 x System/PoE				
Communication Interface					
Ethernet	1 x RJ-45, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)				
COM1	RS-232 (TXD, RXD, RTS, CTS, GND), Non-isolated, Speed: 115200 bps Max.				
COM2	RS-485 (Data+, Data-) with internal self-tuner ASIC; Non-isolated, Speed: 115200 bps Max.				
I/O Expansion					
I/O Type	X-board				
User Defined I/O PINs	14				
Mechanical					
Dimension (W x H x D)	72 mm x 123 mm x 35 mm				
Installation	DIN-Rail Mounting				
Environmental					
Operating Temperature	-25 ~ +75 ℃				
Storage Temperature	-40 ~ +80 °C				
Humidity	5 ~ 90 % RH, Non-condensing				
Power					
Input Range	+12 ~ +48 VDC				
Powered from PoE	IEEE 802 3af, Class 1				
Consumption	1.5 W	2.5 W			

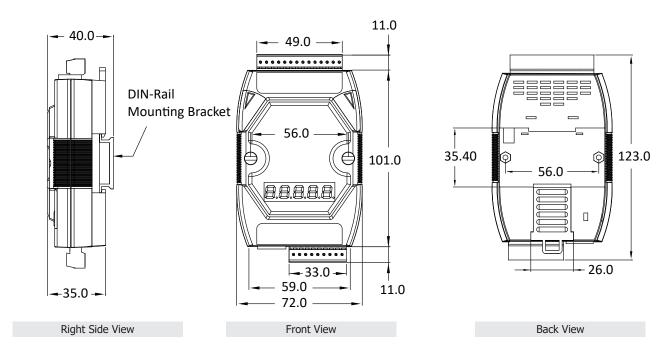
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■ Wiring Connections



■ Dimensions (Units: mm)



Ordering Information

μPAC-7186PEX-G CR	Standard Palm-sized Serial/Ethernet PAC with 80186-80 CPU, MiniOS7 and PoE (Gray Cover) (RoHS)
μPAC-7186PEXD-G CR	Standard Palm-sized Serial/Ethernet PAC with 80186-80 CPU, MiniOS7, PoE and 7-Segment LED Display (Gray Cover) (RoHS)

■ Accessories		
X-Board	Add-on I/O Expansion Board	D in wall to

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