

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 µPAC-7186PEX(D), you can choose one of them to expand hardware features.

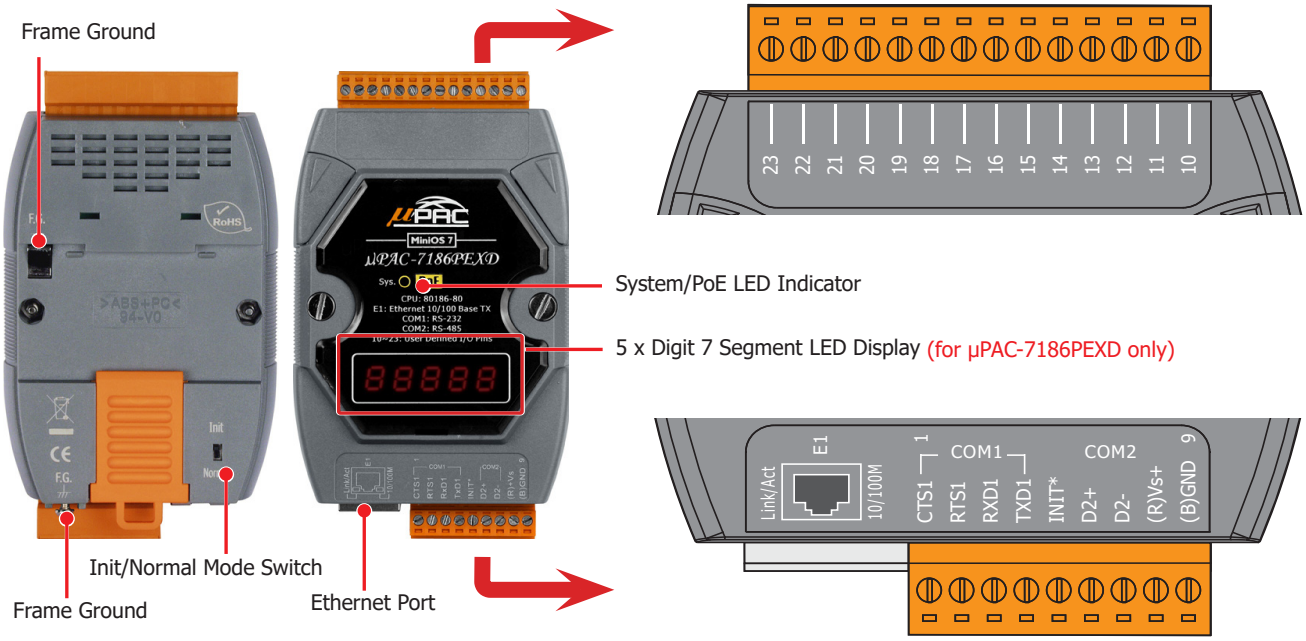
The µPAC-7186PEX(D) features true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using a standard category 5 Ethernet cable to receive power from a PoE switch like the NS-205PSE.

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



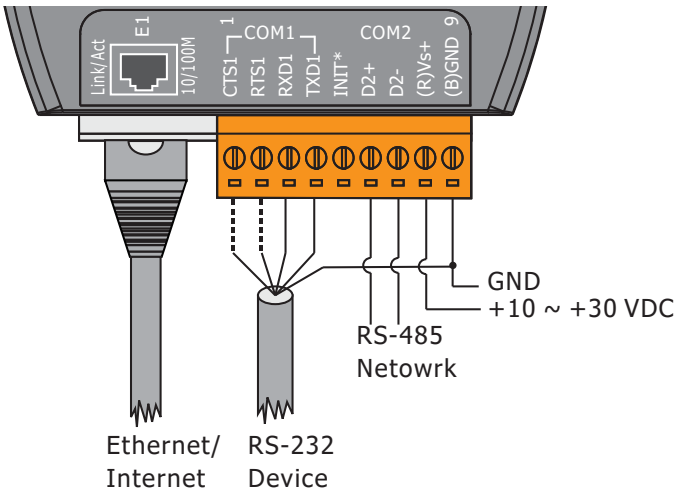
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Specifications

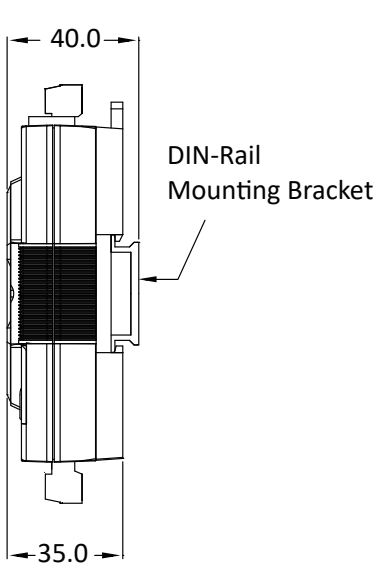
Model	µPAC-7186PEX	µPAC-7186PEXD
Software		
OS	MiniOS7	
Development	C Language	
CPU Module		
CPU	80186 or compatible, 16-bit and 80 MHz	
SRAM	512 KB	
Flash	512 KB	
EEPROM	16 KB	
NVRAM	31 Bytes	
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year	
64-bit Hardware Serial Number	Yes	
Watchdog Timer	Yes	
Display		
Type	-	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 °C	
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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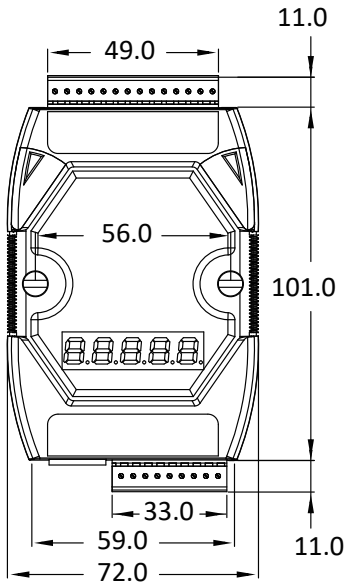
Wiring Connections



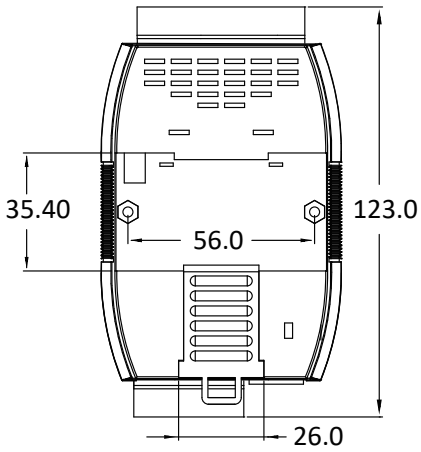
Dimensions (Units: mm)



Right Side View



Front View



Back View

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



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