



## μPAC-5001(D)/μPAC-5001(D)-FD

Standard Palm-sized PAC with 80186-80 CPU, MiniOS7  
(256 KB Flash and 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
  - microSD (Up to 32GB micro SD cards are supported)
- Various Communication Interfaces (Ethernet, RS-232/RS-485)
- 64-bit Hardware Serial Number
- I/O Expansion Bus Interface
- Redundant Power Inputs



### Introduction

The μPAC-5001(D)/μPAC-5001(D)-FD is a 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-5001(D)/μPAC-5001(D)-FD 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. There are more than 10 boards available for μPAC-5001(D)/μPAC-5001(D)-FD, you can choose one of them to expand hardware features.

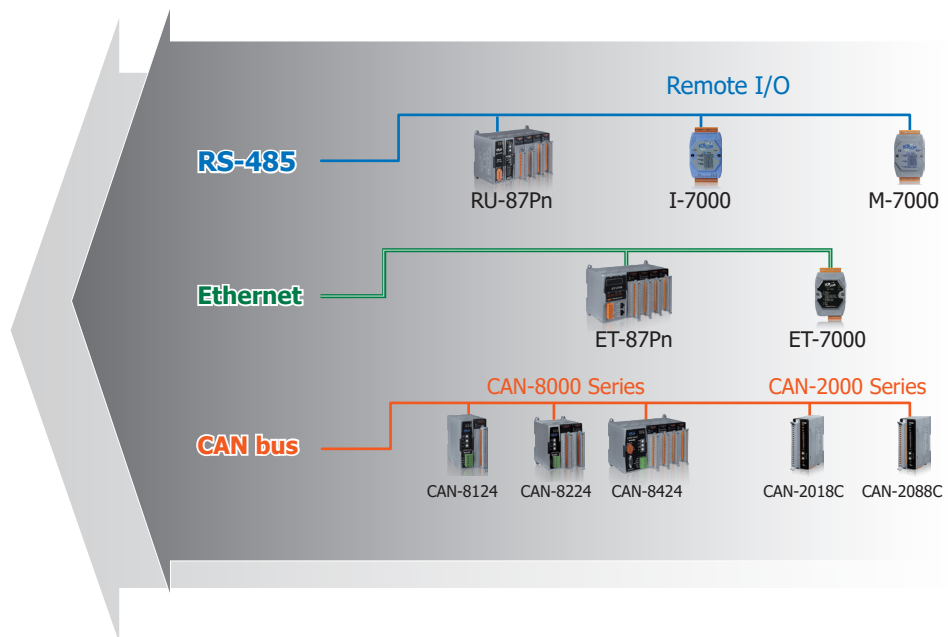
### Powerful Embedded OS — MiniOS7



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
- Libraries & demo programs for various peripherals, devices and remote I/O modules
- Short boot period (<1 Second)
- Less memory resource required
- Faster watchdog response time

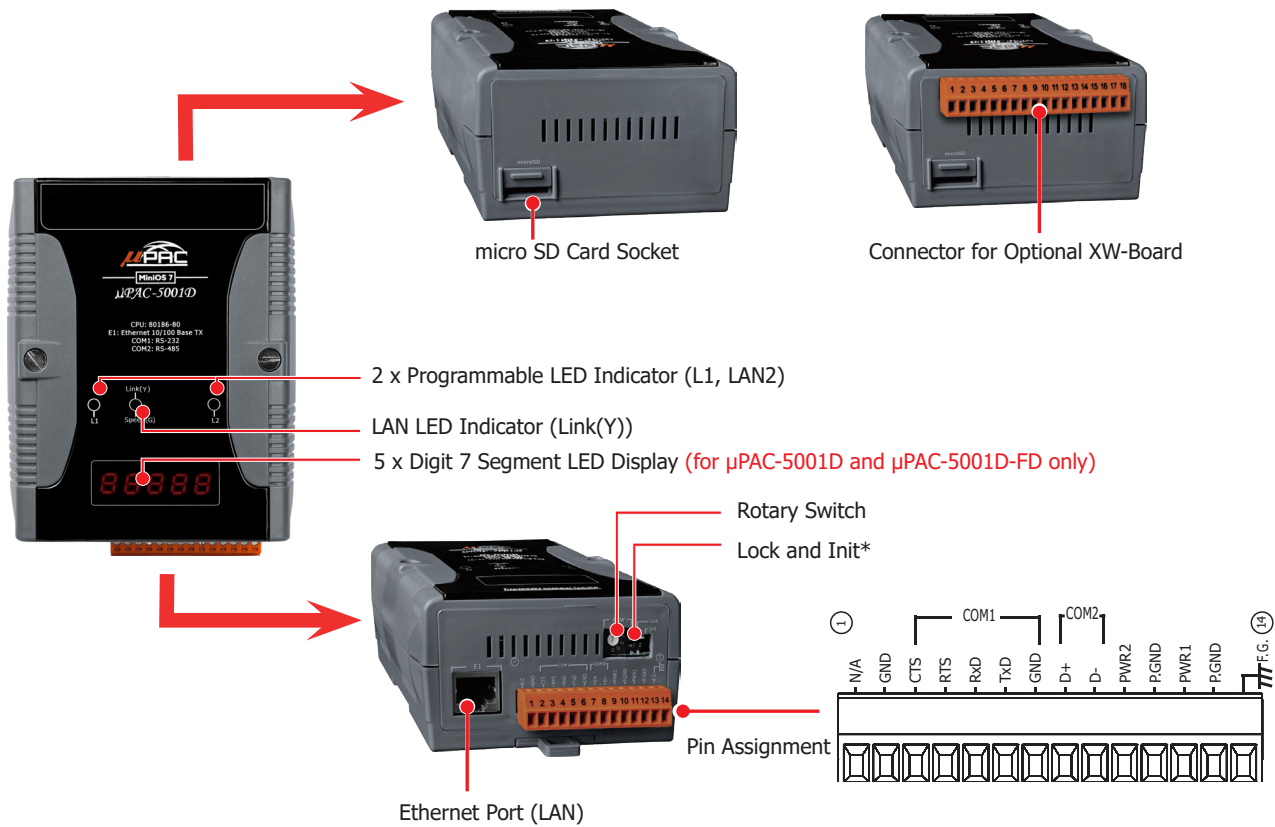
### Applications



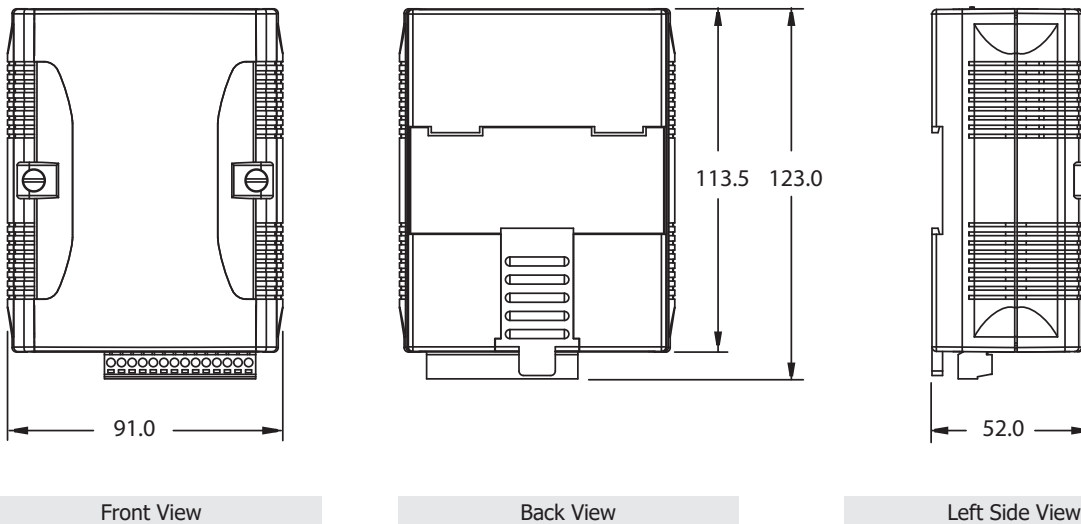
## Specifications

Model	μPAC-5001	μPAC-5001-FD	μPAC-5001D	μPAC-5001D-FD
<b>Software</b>				
OS	MiniOS7			
Development	C Language			
<b>CPU Module</b>				
CPU	80186 or compatible, 16-bit and 80 MHz			
SRAM	512 KB			
NAND Flash	-	256 MB	-	256 MB
Flash	512 KB			
EEPROM	16 KB			
NVRAM	31 Bytes			
Storage Expansion	Yes, support up 32 GB microSD card			
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year			
64-bit Hardware Serial Number	Yes			
Watchdog Timer	Yes			
<b>Display</b>				
Type	-		5 x Digit 7 Segment LED Display	
<b>LED Indicator</b>				
Status	2 x Programmable			
<b>Communication Interface</b>				
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.			
<b>I/O Expansion</b>				
I/O Type	XW-board			
<b>Mechanical</b>				
Dimension (W x H x D)	91 mm x 123 mm x 52 mm			
Installation	DIN-Rail Mounting			
<b>Environmental</b>				
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-30 ~ +80 °C			
Humidity	10 ~ 90 % RH, Non-condensing			
<b>Power</b>				
Input Range	+12 ~ +48 VDC			
Redundant Power Inputs	Yes			
Consumption	2.0 W		2.5 W	

## Appearances



## Dimensions (Units: mm)



## Ordering Information

<b>μPAC-5001 CR</b>	Standard Palm-sized PAC with 80186-80 CPU and MiniOS7 (RoHS)
<b>μPAC-5001D CR</b>	Standard Palm-sized PAC with 80186-80 CPU, MiniOS7 and 7-Segment LED Display (RoHS)
<b>μPAC-5001-FD CR</b>	Standard Palm-sized PAC with 80186-80 CPU, MiniOS7 and 256 MB Flash (RoHS)
<b>μPAC-5001D-FD CR</b>	Standard Palm-sized PAC with 80186-80 CPU, MiniOS7, 256 MB Flash and 7-Segment LED Display (RoHS)