µPAC-7186EX(D)-MTCP

Palm-sized Programmable Modbus Gateway with
80186-80 CPU, Modbus Firmware (7-Segment LED Display)

Features

- Incorporate Serial Devices in an Ethernet Network
- Supports Modbus TCP to RTU Gateway
- Built-in High Performance MiniOS7 from ICP DAS
- Easy-to-use Software Development Tool Kits (Using C language)
- Various Communication Interfaces
  - 10/100 Base-TX Ethernet
  - RS-232/RS-485
- 64-bit Hardware Serial Number
- I/O Expansion Bus Interface
- Build-in Watchdog Timer

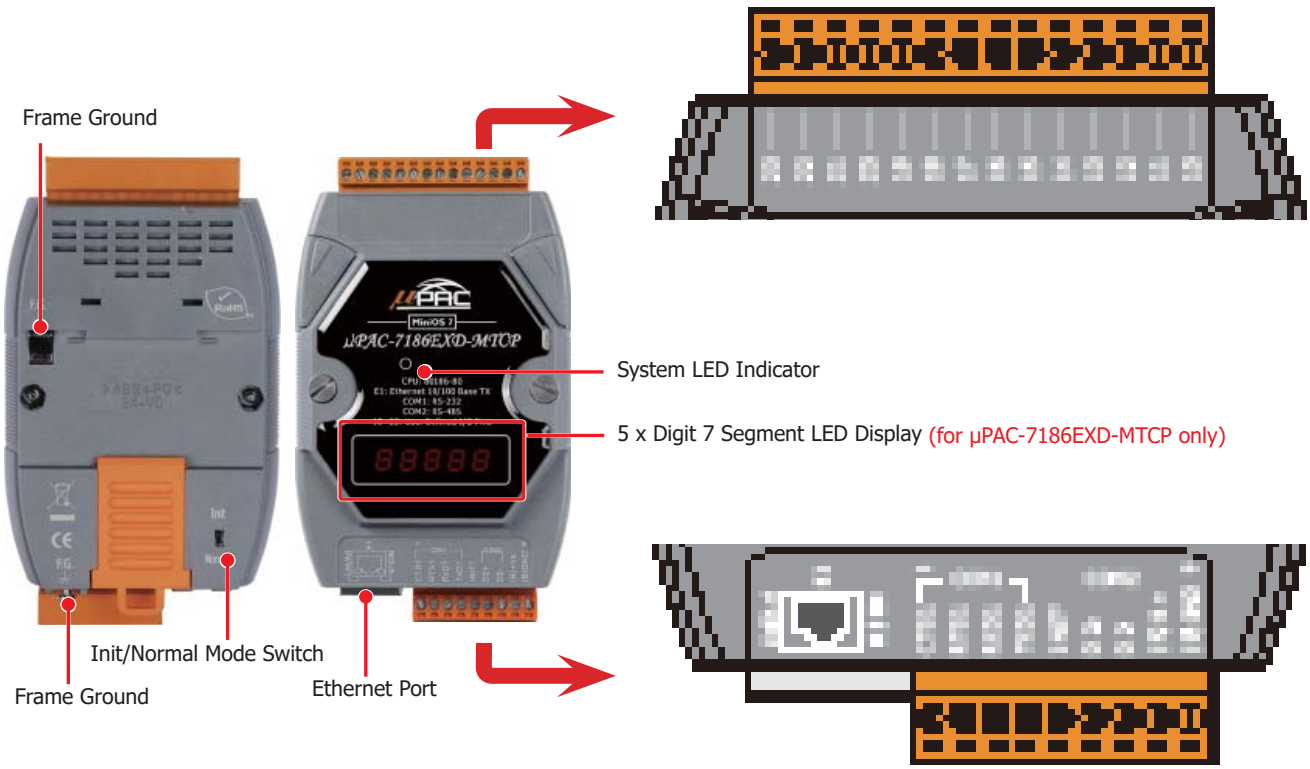
Introduction

The µPAC-7186EX(D)-MTCP is a family of Programmable Device Servers, also known as "Serial-to-Ethernet gateway", that are designed for linking RS-232/485 devices to an Ethernet network. The µPAC-7186EX(D)-MTCP also works as a Modbus TCP to RTU gateway that supports most SCADA/HMI communications based on the Modbus TCP protocol.

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

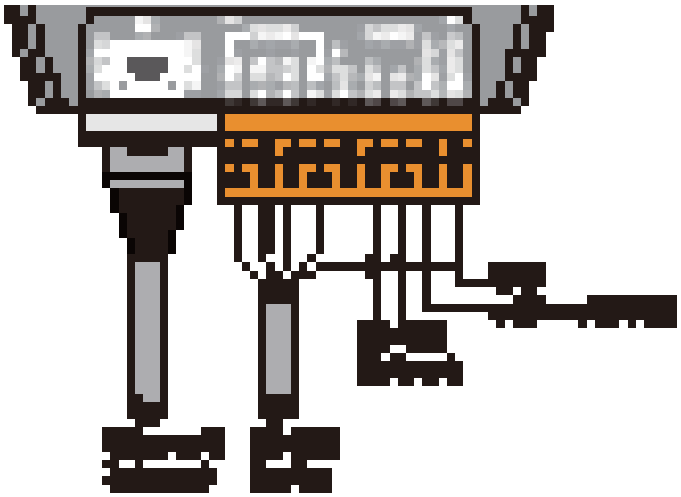
Appearances



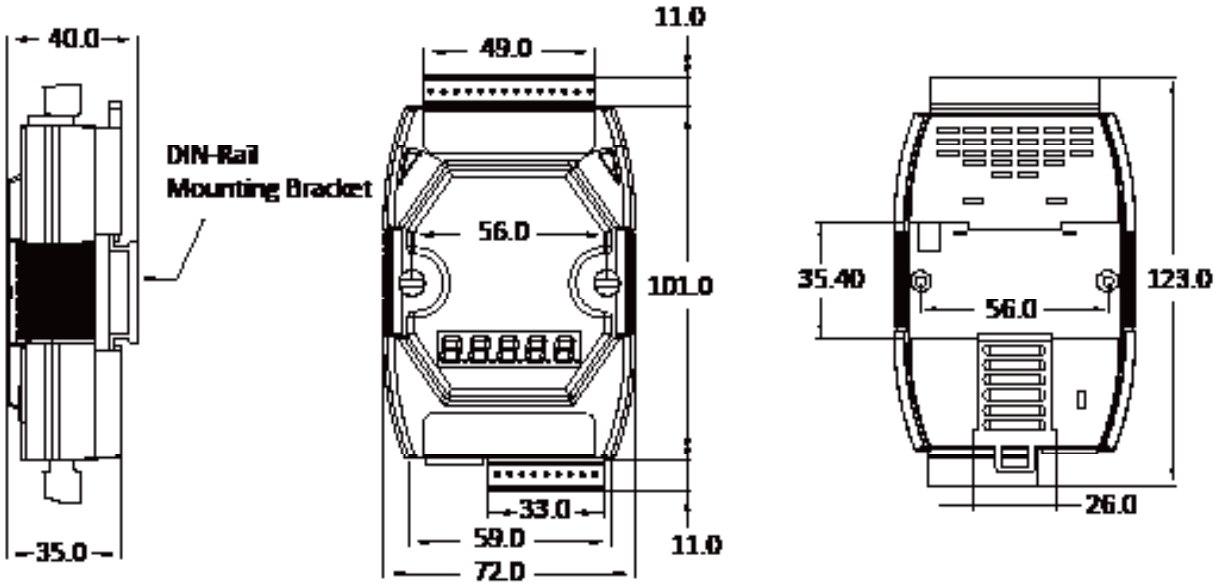
Specifications

Model	µPAC-7186EX-MTCP	µPAC-7186EXD-MTCP
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	
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	+10 ~ +30 VDC	
Consumption	1.5 W	2.5 W

Wiring Connections



Dimensions (Units: mm)



Right Side View | Front View | Back View

Ordering Information

µPAC-7186EX-MTCP-G CR	Palm-sized Programmable Modbus Gateway with 80186-80 CPU and Modbus Firmware (Gray Cover) (RoHS)
µPAC-7186EXD-MTCP-G CR	Palm-sized Programmable Modbus Gateway with 80186-80 CPU, Modbus Firmware and 7-Segment LED Display (Gray Cover) (RoHS)

Accessories

X-Board	Add-on I/O Expansion Board