





μPAC-7186EX(D)-MTCP

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

■ 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

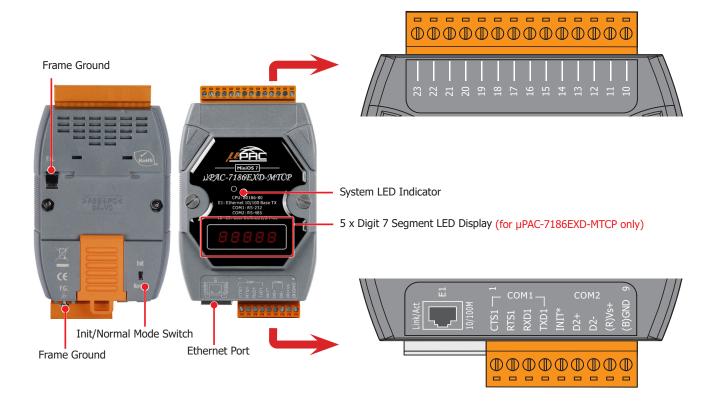
The μ PAC-7186EX(D)-MTCP is a family of Programmable Device Servers, also known as "Serial-to-Ethernet gateway", that are designed for linking RS-232/485 devices to an Ethernet network. The μ PAC-7186EX(D)-MTCP also works as a Modbus TCP to RTU gateway that supports most SCADA/HMI communications based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

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

Appearances



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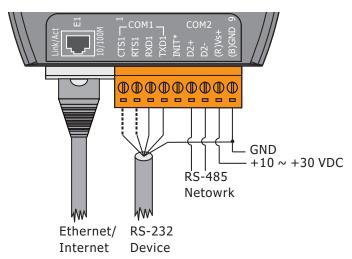
■ Specifications

Model	µРАС-7186EX-МТСР	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					
Туре	-	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 ℃				
Storage Temperature	-40 ~ +80 °C				
Humidity	5 ~ 90 % RH, Non-condensing				
Power					
Input Range	+10 ~ +30 VDC				
Consumption	1.5 W 2.5 W				

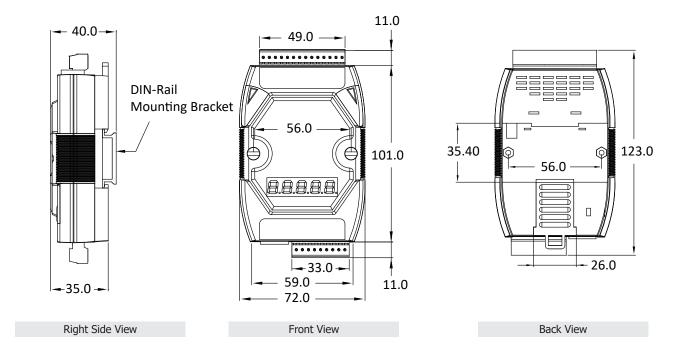
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■ Wiring Connections



■ Dimensions (Units: mm)



■ Ordering Information

	μPAC-7186EX-MTCP-G CR	Palm-sized Programmable Modbus Gateway with 80186-80 CPU and Modbus Firmware (Gray Cover) (RoHS)
	uPAC-7186EXD-MTCP-G CR	Palm-sized Programmable Modbus Gateway with 80186-80 CPU, Modbus Firmware and 7-Segment
pi AC 710	prac / 100EAD Price G CR	LED Display (Gray Cover) (RoHS)

Accessories

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X-Board	Add-on I/O Expansion Board	Of the state of th		

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