

## i-8000 Compact PAC SERIES



### Ordering Information:

**I-8430:** PAC

**I-8430-G:** I-8430 with Gray color



### Ordering Information:

**I-8431:** PAC

**I-8431-G:** I-8431 with Gray color



### Ordering Information:

**I-8830:** PAC

**I-8830-G:** I-8830 with Gray color



### Ordering Information:

**I-8831:** PAC

**I-8831-G:** I-8831 with Gray color

### Specifications & Features

- CPU 80188, 40MHz
- SRAM:
  - 256K bytes (for I-8430/8830)
  - 512K bytes (for I-8431/8831)
- Flash Memory: 512K bytes
- EEPROM: 2K bytes
- 64-bit hardware unique serial number (for I-8431/8831)
- Built-in Watchdog Timer
- Real Time Clock (for I-8431/8831)
- COM0: Internal use
- COM1: RS-232/Program download port
- 10 Base T: NE2000 compatible
- COM3: RS-232/485
- COM4: RS-232 (I-8431/8831)
- S-MMI:
  - Small Man Machine Interface
- I/O Expansion Slot
  - 4-slot for I-8430/8431
  - 8-slot for I-8830/8831
- Power Supply: 20W
  - Unregulated +10Vdc to +30Vdc
- Power Consumption:
  - I-8430/I-8431: 3.9W
  - I-8830/I-8831: 5.1W
- Environment
  - Operating Temp.: -25°C to +75°C
  - Storage Temp.: -30°C to +85°C
- Humidity: 5 ~95%
- Dimensions:
  - 354 x 110 x 75.5 mm (8-slot)
  - 230 x 110 x 75.5 mm (4-slot)
- **Support VxComm technique & Xserver**

## What is Modbus

### What is Modbus protocol ?

Modbus is a communication protocol developed by MODICON Inc. in 1979. It's a standard, truly opened and the most widely used network communication protocol in industrial automation field. SCADA and HMI software can easily integrate serial devices together via Modbus protocol.

### What is Modbus/TCP protocol ?

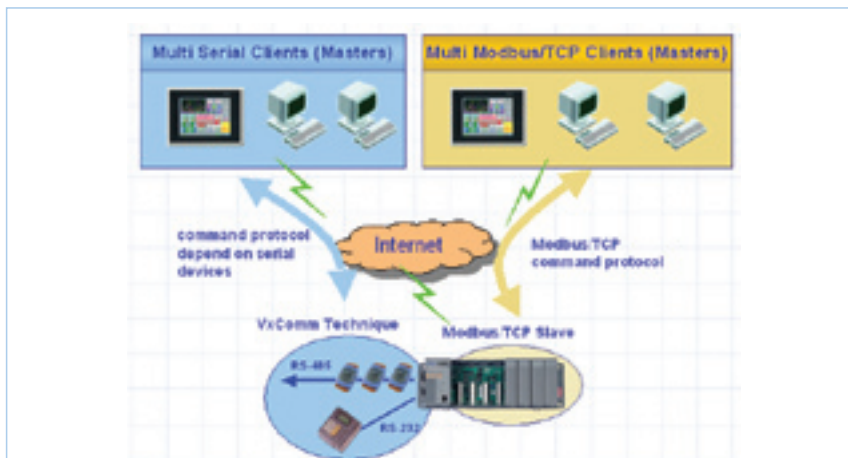
Modbus/TCP protocol is a variant of Modbus protocol. It was developed in 1999 to allow Internet community access Ethernet devices.

### What software supports Modbus and Modbus/TCP protocol?

Citect, ICONICS, iFIX, InduSoft, Intouch, Entivity Studio, Entivity Live, Entivity VLC, Wizcon, Trace Mode and Wonderware ... etc

### What are the benefits of using Modbus and Modbus/TCP protocol ?

1. Openness, no license fees.
2. Widely supported by SCADA and HMI software
3. Easy to use
4. Easily integrate different devices
5. Low development cost
6. Widely knowledge resource



# i-8000 **Modbus/TCP PAC**

## SERIES

### Default firmware features

- Supports Modbus/TCP communication protocol to access I/Os that plugged in slots.
- Supports VxComm technique for every COM port of controllers.
- Supports 8K and 87K DI/DO/AI/AO modules.  
Please refer detail list in Modbus Utility on-line help.
- Automatically scan I/O modules.  
You can plug I/O modules in any slot. Don't mind the slot order, it doesn't matter.
- Allowed a maximum of 8 host PCs access simultaneously.  
In fact, it can allow 16 host PCs access simultaneously.  
But for getting better stability, we recommend you don't use more than 8 host PCs to access a Modbus/TCP controller.
- Firmware updateable

### Modbus SDK ( in C language )

We provide Modbus SDK to users. You can use it to integrate several serial devices. Thus the controller can be a Modbus/TCP slave and Modbus/RTU master. The Modbus SDK has below features:

- Supports extra user-defined command protocol
- Register based programming method (easy to use)
- Can link Modbus/RTU slave devices
- Supports user-defined registers
- Can link to non-standard serial devices
- Xserver SDK compatible

### Hardware specifications

Same as I-8430, I-8431, I-8830, I-8831

### Ordering Information

- **I-8430 -MTCP:** Modbus/TCP PAC with 4 slots
- **I-8431 -MTCP:** Modbus/TCP PAC with 4 slots
- **I-8830 -MTCP:** Modbus/TCP PAC with 8 slots
- **I-8831 -MTCP:** Modbus/TCP PAC with 8 slots