

What is Modbus

What is Modbus protocol ?

Modbus is a communication protocol developed by MODICON Inc. in 1979. It's a standard, truly open 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