

iP-8411-MRTU/iP-8811-MRTU



Model: iP-8411-MRTU



Model: iP-8811-MRTU

Features

- Supports Modbus RTU/ASCII Slave
- Auto Configuration
- 4/8 I/O Slots for I-8K and I-87K Series Modules
- Operating Temperature: -25 ~ +75 °C

Introduction

iP-8000-MRTU series is a Modbus serial I/O expansion unit to expand I-8K and I-87K series I/O modules over the serial port for industrial monitoring and controlling applications. There are more than 50 I/O modules supported with the unit, including analog input/output, digital input/output, counter, frequency I/O modules.

It is designed to be used in harsh and noisy environment, so the hardware is manufactured with wide power input range (10 ~ 30 VDC), isolated power input and can operate under wide temperature (-25 ~ +75°C). To simplify installation and maintenance of I/O modules, it provides many useful features, such as: auto configuration, LED indicators for fault detection, dual watchdog to keep alive, programmable power on and safe values for safety.

Modbus is a very wide known protocol in the industrial manufacturing and environment monitoring fields. Many SCADA software, HMI and PLC has builtin driver to support Modbus devices. Besides, we also provide SDK on different platforms, such as Windows XP, Window CE 5.0/6.0, Linux, MiniOS7. Therefore, it is very easy to integrate remote I/O to customer's applications.

Specifications

Models	iP-8411-MRTU	iP-8841-MRTU
System Software		
OS	MiniOS7 (DOS-like embedded operating system)	
Communication Ports		
Protocol	Modbus RTU/ASCII Slave	
Ethernet	NONE	
COM 0	Internal communication with the high profile I-87K series modules in slots	
COM 1	RS-232 (to update firmware) (Rx/D, Tx/D and GND); non-isolated	
COM 2	RS-485 (D2+, D2-; self-tuner ASIC inside); 3000 VDC Isolation	
COM 3	RS-232/RS-485 (Rx/D, Tx/D, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated	
COM 4	RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI and GND); non-isolated	
SMMI		
LED Display	Yes, 5-Digit	

Programmable LED Indicators	3	
Push Buttons	4	
Buzzer	Yes	
I/O Expansion Slots		
Slot Number	4	8
	Note: For High Profile I-8K and I-87K Modules Only	
Mechanical		
Dimensions (W x L x H)	231 mm x 132 mm x 111 mm	355 mm x 132 mm x 111 mm
Installation	DIN-Rail or Wall Mounting	
Environmental		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-30 °C ~ +80 °C	
Humidity	10 ~ 90% RH (non-condensing)	
Power		
Input Range	+10 ~ +30 VDC	
Isolation	1 kV	
Redundant Power Inputs	Yes, with one power relay (1 A @ 24 VDC) for alarm	
Capacity	30 W	
Consumption	6.7 W	7.2 W

Ordering Information

iP-8411-MRTU	4 slots I/O Expansion Unit with Modbus RTU/ASCII protocol
iP-8841-MRTU	8 slots I/O Expansion Unit with Modbus RTU/ASCII protocol