



iP-8411-MRTU/iP-8811-MRTU

4/8-slot Modbus RTU I/O Expansion Unit
(Modbus RTU/ASCII Protocol)

Features

- Supports Modbus RTU/ASCII Slave
- Auto Configuration
- LED Indicators for Fault Detection
- 4/8 I/O Slots for I-8K and I-87K Series Modules

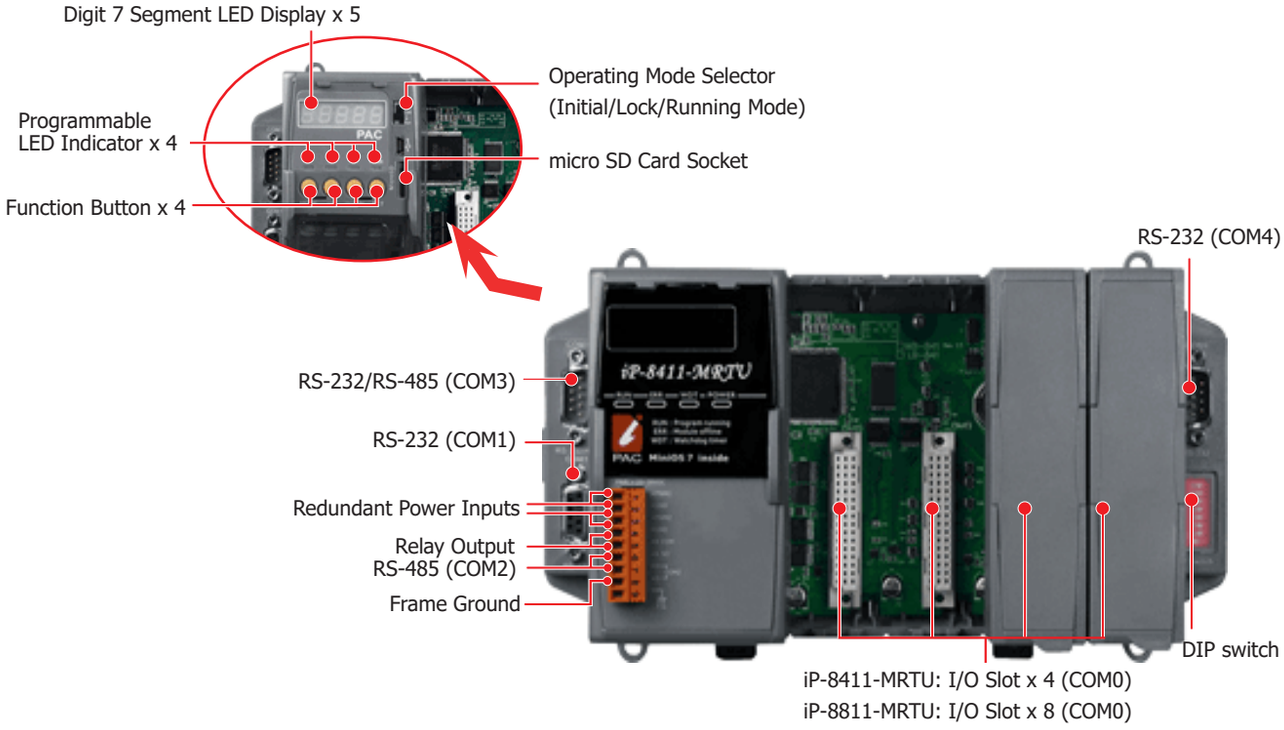
Introduction

iP-8411-MRTU/iP-8811-MRTU 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.

Appearance



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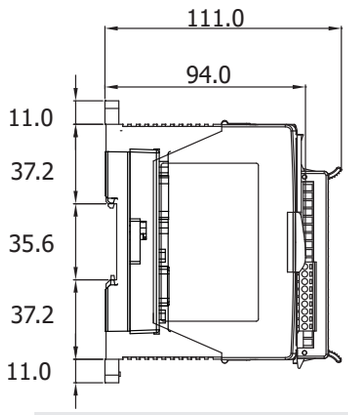
Specifications

Models	iP-8411-MRTU	iP-8811-MRTU
Software		
OS	MiniOS7	
Development	C Language	
CPU Module		
CPU	80186 or compatible, 16-bit and 80 MHz	
64-bit Hardware Serial Number	Yes	
EEPROM	16 KB	
Flash	512 KB	
NVRAM	31 Bytes	
SRAM	512 KB SRAM, 512 KB Dual battery backup SRAM	
Storage Expansion	4 GB microSD card (up to 32 GB)	
Real Time Clock	Provide seconds, minutes, hours, dates, day of week, month, year	
Watchdog Timer	Yes	
Display		
Type	5 x Digit 7 Segment LED Display	
LED Indicators		
Status	3 x System (RUN, ERR, WDT), 1 x Power	
I/O Expansion		
I/O Type	I-8K, I-87K series	
Slots	4	8
COM Ports		
Ports	2 x RS-232, 1 x RS-485 (3000 VDC Isolated), 1 x RS-232/RS-485	
Protocol	Modbus RTU/ASCII Slave	
HMI		
Buzzer	Yes	
DIP Switch	8-bit for address	
Push Button	4	
Power		
Input Range	+10 ~ 30 VDC (1 kV Isolated)	
Redundant Power Inputs	Yes	
Consumption	6.7 W	7.2 W
Mechanical		
Dimension (W x L x H)	231 x 132 x 111 mm	355 x 132 x 111 mm
Installation	DIN-Rail, Wall mounting	
Environmental		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-30 ~ +80 °C	
Humidity	10 ~ 90 % RH, Non-condensing	

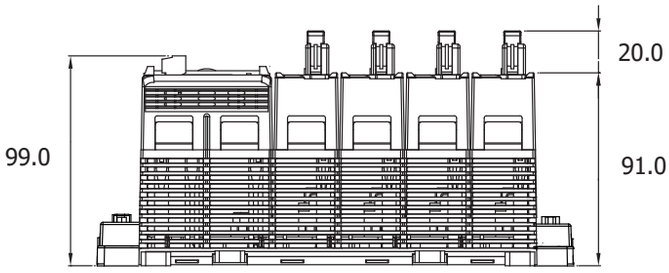
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Dimensions (Units: mm)

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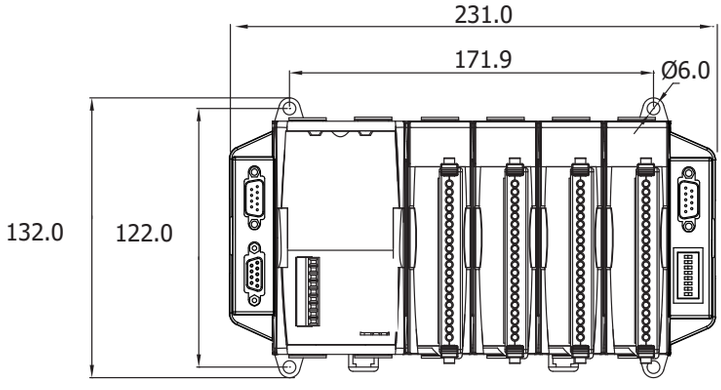


Left Side View



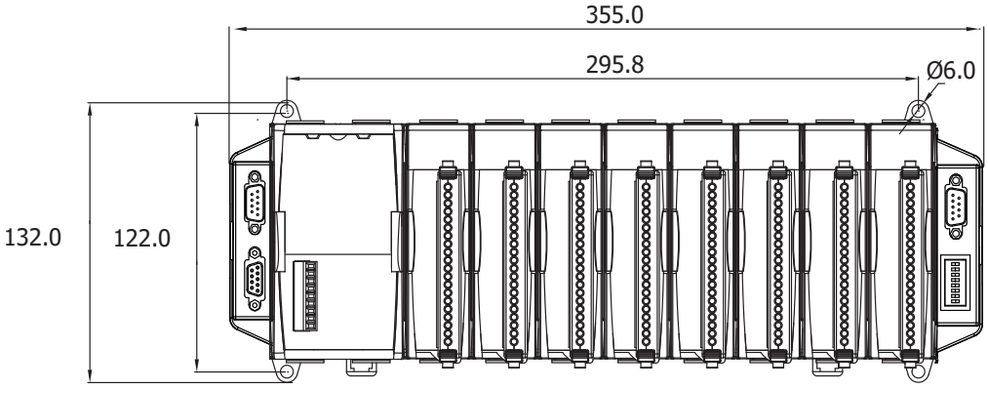
Bottom View

iP-8411-MRTU



Front View

iP-8811-MRTU



Front View

Ordering Information

iP-8411-MRTU-G CR	4-slot Modbus RTU I/O Expansion Unit (Modbus RTU/ASCII Protocol) (RoHS)
iP-8811-MRTU-G CR	8-slot Modbus RTU I/O Expansion Unit (Modbus RTU/ASCII Protocol) (RoHS)

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