

I-8410/I-8810

4/8-slot Serial I/O Expansion Unit with 80188-40 CPU and 3 Serial Ports (DCON Protocol)

Features

- 80188 or compatible, 8-bit and 40 MHz
- MiniOS7 Embedded Operating System (DOS-like)
- Slave I/O unit with DCON protocol (ASCII-based protocol)
- Support I/O configuration with DCON Utility
- Built-in Watchdog
- Serial Port x 3 (RS-232 or RS-485 communication Interface)
- Operating Temperature: -25 ~ +75 °C



Introduction

The I-8410/I-8810 is an embedded serial I/O units using DCON Protocol Firmware. ICPDAS provides various I/O modules, such as analog input/output, digital input/output and counter/frequency modules, which can be used in remote data acquisition and control applications for environment monitoring, power management and factory automation, etc.

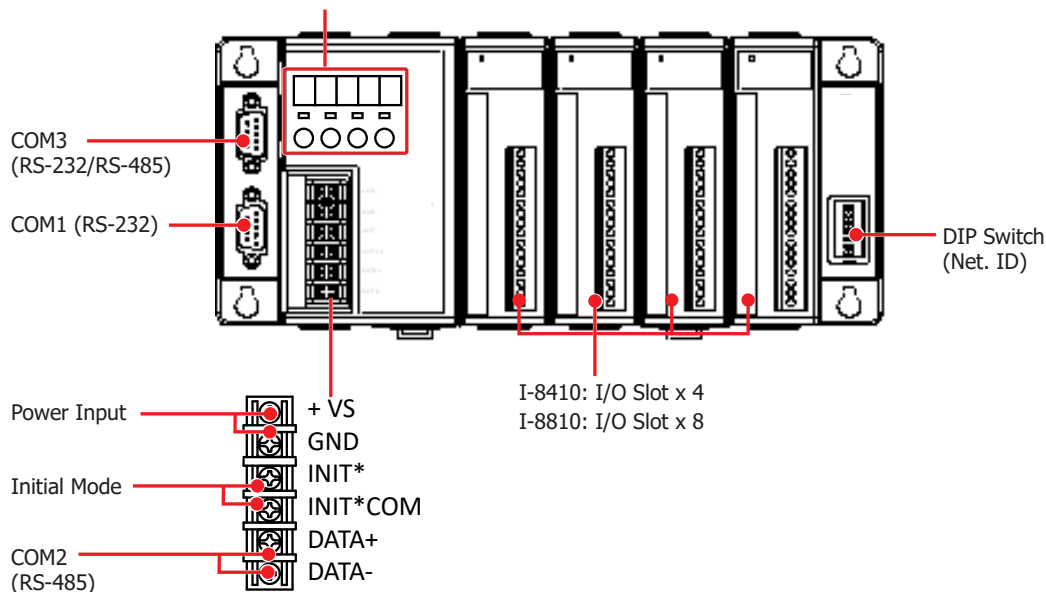
The CPU is a 8-bit 80188 (40 MHz). Apart from the original functions (input, output, power on value, safe value, high limit value, low limit value) of the I/O module, the firmware provides additional functions to allow I/O modules in different slots to be combined together. For example, if the channel value of an AI module is above a predefined high limit value, or below a predefined low limit value, the information can be immediately passed to another DO module to trigger alarm or light.

Various software development kits (SDK) and demos are provided, such as DLL, ActiveX, Labview driver, Indusoft driver, Linux driver, OPC server, etc. The I/O modules can be easily added to the I-8410/I-8810 and can be quickly integrated into an existing system.

Apparances

SMMI

- 7-Segment Display x 5
- Programmable LED Indicator x 3, Power LED Indicator x 1
- Push Button x 4

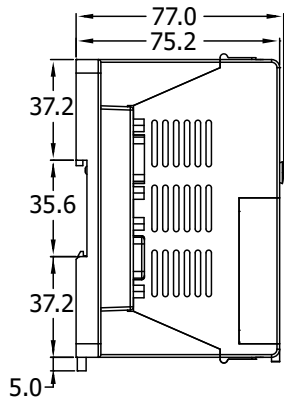


Specifications

| Models | I-8410 | I-8810 |
|------------------------------|---|-------------------------|
| CPU Module | | |
| CPU | 80188 or compatible, 8-bit and 40 MHz | |
| SRAM | 256 KB | |
| Flash | 256 KB | |
| EEPROM | 2 KB | |
| Watchdog Timer | Yes | |
| DIP Switch | 8-bit for address | |
| Communicate Interface | | |
| COM0 | Internal communication with the 87K modules | |
| COM1 | RS-232 (RxD, TxD, GND; to update firmware) | |
| COM2 | RS-485 (Data+, Data-) | |
| SMMI | | |
| 7-Segment Display | 5 | |
| LED Indicator | 1 x Power, 3 x Programmable | |
| Push Button | 4 | |
| I/O Expansion | | |
| I/O Type | I-8K, I-87K series | |
| Slots | 4 | 8 |
| Mechanical | | |
| Dimension (W x L x H) | 231 mm x 110 mm x 77 mm | 355 mm x 110 mm x 77 mm |
| Installation | DIN-Rail, Wall mounting | |
| Environmental | | |
| Operating Temperature | -25 ~ +75 °C | |
| Storage Temperature | -30 ~ +85 °C | |
| Humidity | 5 ~ 95 % RH, Non-condensing | |
| Power | | |
| Protection | Power reverse polarity protection | |
| Input Range | +10 ~ 30 VDC | |
| Power Supply | 20 W | |
| Consumption | 3.9 W | 5.1 W |

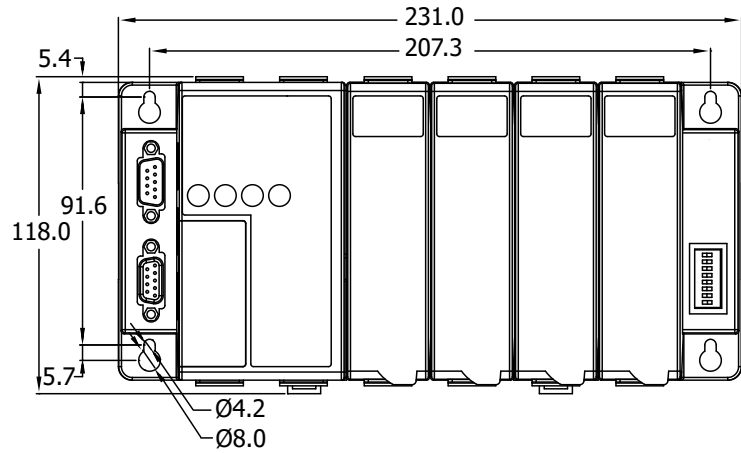
■ Dimensions (Units: mm)

I-8410/I-8810



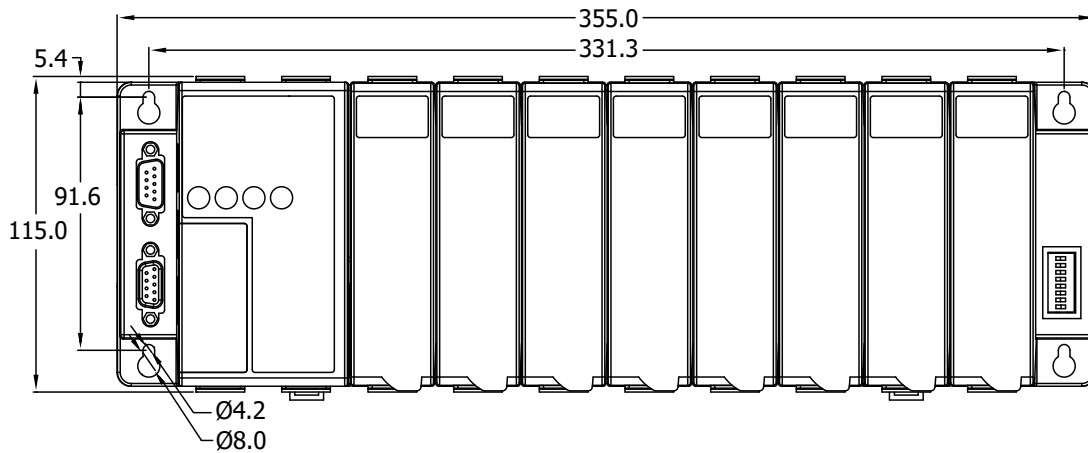
Left Side View

I-8410



Front View

I-8810



Front View

■ Ordering Information

| | |
|-------------|---|
| I-8410 CR | 4-slot Serial I/O Expansion Unit with 80188-40 CPU and 3 Serial Ports (DCON Protocol) (Blue Cover) (RoHS) |
| I-8810 CR | 8-slot Serial I/O Expansion Unit with 80188-40 CPU and 3 Serial Ports (DCON Protocol) (Blue Cover) (RoHS) |
| I-8410-G CR | 4-slot Serial I/O Expansion Unit with 80188-40 CPU and 3 Serial Ports (DCON Protocol) (Gray Cover) (RoHS) |
| I-8810-G CR | 8-slot Serial I/O Expansion Unit with 80188-40 CPU and 3 Serial Ports (DCON Protocol) (Gray Cover) (RoHS) |