Digital Output / Relay Module

USB-2064

8-channel Power Relay Output Module

Features

- 8-channel power relay output
- 5A maximum current contact rating
- Safety functionality when communication failed
- Wide operating temperature range
- 2500 V_{DC} Intra-Module isolation
- USB 2.0 Full-Speed
- USB Bus Powered
- Plug-and-Play without driver
- Lockable USB cable
- PWR / RUN / ERR LED indicators

Introduction

The USB-2064 is a full-speed USB device with 8-channel power relay output module, and offers features for industrial control and manufacturing test applications, such as factory automation or embedded machine control. The USB-2064 provides a power relay with 5A maximum current contact rating for switching. Besides, the USB-2064 also features power-on value to customize the initial state. Moreover, the safety value can be used to secure the devices in the field. With the true Plug & Play capability, it needs not opening up your computer chassis to install boards-just plug in the module, then get or set the data. Owing to another USB feature known as "hot-swapping", users do not even need to shut down and restart the system to attach or remove the USB-2064.

The USB I/O utility can help users to configure and test USB-2064 quickly and easily without programming; In addition, we also provide the friendly API library and demos for users to develop own USB application with various application development tools (VB / C++ / C#.NET / VB.NET). Therefore, the USB-2064 is the perfect way to add control capability to any USB capable computer.

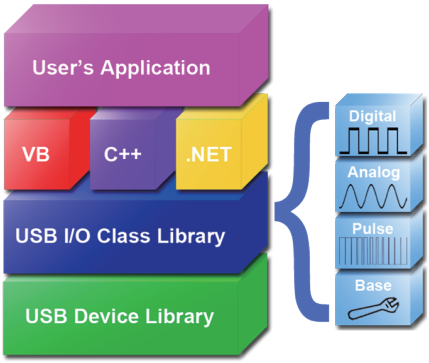
Application

- Building automation
- Factory automation
- Machine automation
- Testing equipment

Software

VB/C++/C#.NET/VB.NET SDK

ICP DAS provides a SDK for USB I/O modules to help user to develop own project easily and quickly. The SDK can be supported in VB/C++/C#.NET/VB.NET to fulfill project development.



Pin Assignment

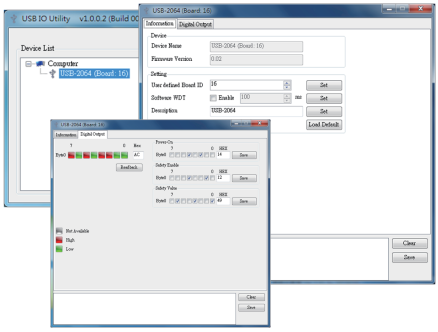
Terminal No.	Pin Assignment
01	RL0 NO
02	RL0 COM
03	RL1 NO
04	RL1 COM
05	RL2 NO
06	RL2 COM
07	RL3 NO
08	RL3 COM
09	RL4 NO
10	RL4 COM
11	RL5 NO
12	RL5 COM
13	RL6 NO
14	RL6 COM
15	RL7 NO
16	RL7 COM

Software

USB I/O Utility

USB I/O Utility provides a simple way to easily test and instant acquire data for all ICP DAS USB I/O series modules without programming.

- Automatically scan all ICP DAS USB I/O modules
- Easily and quickly configure and test USB I/O modules
- Completely and precisely log I/O data for analysis



Specification

Output		
Channels	8	
Output Type	Form A (SPST-NO)	
Contact Rating (Resistive Load)	5A 250V_{AC} (47~63Hz) 5A 30V_{DC}	
Operate Time	10ms max.	
Release Time	5ms max.	
Insulation Resistance	1,000MΩs at 500V_{DC}	
Dielectric Strength	Between Open Contact	1000V_{AC} (1 min.)
	Between Coil and Contacts	3000V_{AC} (1 min.)
Endurance	Mechanical	20,000,000 times min.
	Electrical	100,000 times min.
Communication		
Interface	USB 2.0 Full-Speed	
Watchdog	1 Hardware watchdog (1.6 second)	
	1 Software watchdog (Programmable)	
LED Indicators		
System LED Indicators	3 LED as Power, Run and Error	
I/O LED indicators	8 LEDs as power relay indicators	
EMS Protection		
ESD (IEC 61000-4-2)	4 kV contact for each terminal	
	8 kV air for random point	
Mechanical		
Dimensions(W×L×H)	33mm × 102mm × 107mm	
Environment		
Operating Temperature	-25 ~ +75℃	
Storage Temperature	-40 ~ +85℃	
Humidity	10 ~ 95% RH, non-condensing	
Power		
Power Consumption	1.235W max.	

Ordering Information

USB-2064	8-channel Power Relay Output Module