

USB-2064

USB I/O Module with 8-ch Power Relay



USB-2064-16

USB I/O Module with 16-ch Power Relay

Features

- 8/16-ch power relay output
- 5A maximum current contact rating for USB-2064
- Safety functionality when communication failed
- USB Bus Powered
- Plug-and-Play without driver
- Lockable USB cable

Introduction

The USB-2064 and USB-2064-16 are full-speed USB I/O device with 8-ch or 16-ch power relay output module, and provides a power rated relay with 5A/3A maximum current contact rating for switching. In addition, the USB-2064/USB-2064-16 also offers 8/16 LED indicators that can be used to monitor the status of the relay output. Dual watchdog function that provided with configurable power-on and safe values ensures the device operates continuously, even in harsh environments.

We also provide API library and demos with source code for Windows and Linux users to develop their own USB applications with various development tools (VB/C++/C#.NET/VB.NET/LabVIEW). Therefore, the USB-2064/USB-2064-16 is the perfect choose for you to implement I/O expansion via a plug-and-play USB interface.

System Specifications

Model	USB-2064	USB-2064-16
USB		
Specification	USB 2.0 Full-Speed (12Mbps)	
CPU Module		
Watchdog Timer	1 Hardware watchdog (1.6 second) 1 Software watchdog (Programmable)	
EMS Protection		
ESD (IEC 61000-4-2)	4 kV contact for each terminal 8 kV air for random point	
LED Indicators		
Status	3 x Power and Communication	
	8 x Power Relay	16 x Power Relay
Power		
Consumption	1.4 W	2.3 W (Max.)
Mechanical		
Dimensions (mm) (W x L x H)	33 x 107 x 87	31 x 147 x 126
Environmental		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +85 °C	
Humidity	10 ~ 95% RH, Non-condensing	

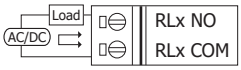
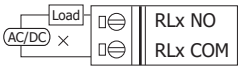
I/O Specifications

Model	USB-2064	USB-2064-16
Relay Output		
Channels	8 x Form A (SPST-NO)	16 Form A (SPST-NO)
Contact Rating	5 A @ 250 V_{AC} (47 ~ 63 Hz) 5 A @ 30 V_{DC}	3 A @ 250 V_{AC} (47 ~ 63 Hz) 3 A @ 30 V_{DC}
Operate Time	10 ms (Max.)	
Release Time	5 ms (Max.)	
Electrical Endurance	1 x 10^5 ops	
Mechanical Endurance	2 x 10^7 ops	
Surge Strength	Between Open Contact: 1000 V_{AC} (1 Min.) Between Coil and Contacts: 3000 V_{AC} (1 Min.)	
Power on Value	-	Yes, Programmable
Safe Value	-	Yes, Programmable
Intra-module Isolation	-	3000 V_{DC}

Applications

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

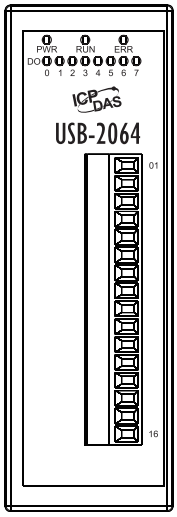
Wire Connections

Output	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Relay Contact		

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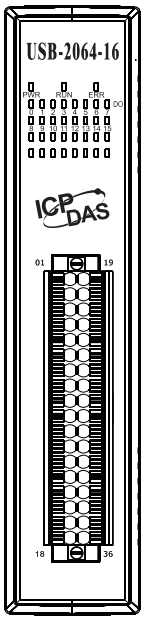
Pin Assignments

USB-2064



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

USB-2064-16



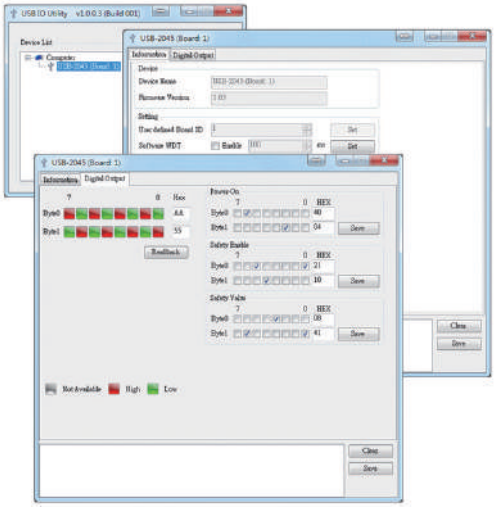
Pin Assignment	Terminal No.		Pin Assignment
NO0	01	19	COM0
NO1	02	20	COM1
NO2	03	21	COM2
NO3	04	22	COM3
NO4	05	23	COM4
NO5	06	24	COM5
NO6	07	25	COM6
NO7	08	26	COM7
N/A	09	27	N/A
N/A	10	28	N/A
NO8	11	29	COM8
NO9	12	30	COM9
NO10	13	31	COM10
NO11	14	32	COM11
NO12	15	33	COM12
NO13	16	34	COM13
NO14	17	35	COM14
NO15	18	36	COM15

Software

USB I/O Utility

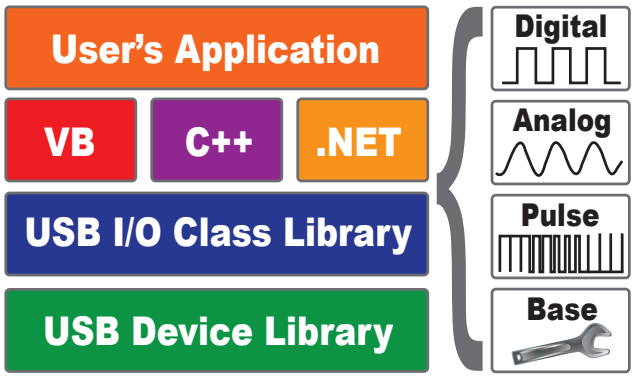
USB I/O Utility provides a simple way to easily test and instant acquire data for all ICP DAS USB I/O series modules without programming.

- 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



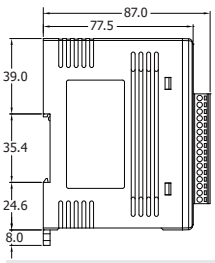
VB/C++/C#.NET/VB.NET/LabVIEW SDK

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/LabVIEW to fulfill project development.

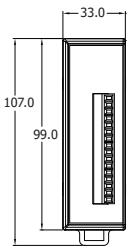


Dimensions (Units: mm)

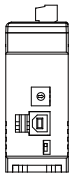
USB-2064



Left View

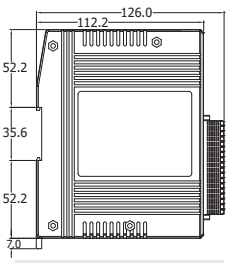


Front View

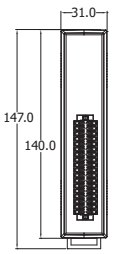


Bottom View

USB-2064-16



Left View



Front View



Bottom View

Ordering Information

USB-2064 CR	USB I/O Module with 8-ch Power Relay (RoHS) Includes 1.5M USB Cable (CA-USB15)
USB-2064-16 CR	USB I/O Module with 16-ch Power Relay (RoHS) Includes 1.5M USB Cable (CA-USB15)

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