



USB-2064
USB I/O Module with 8-ch

Power Relay



USB-2064-16

USB I/O Module with 16-ch Power Relay



■ Introduction

The USB-2064 and USB-2064-16 are full-speed USB device with 8-ch or 16-ch 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/USB-2064-16 provides a power rated relay with 5A/3A maximum current contact rating for switching. Besides, the USB-2064/USB-2064-16 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/USB-2064-16.

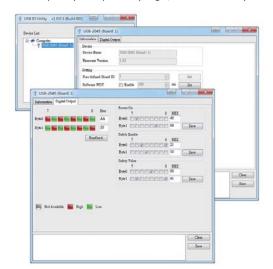
The USB I/O utility can help users to configure and test USB-2064/USB-2064-16 quickly and easily without programming; In addition, we also provide the friendly API library and demos for users to develop own USB application with various application development tools (VB / C++ / C#.NET). Therefore, the USB-2064/USB-2064-16 is the perfect way to add control capability to any USB capable computer.

Software

USB I/O Utility

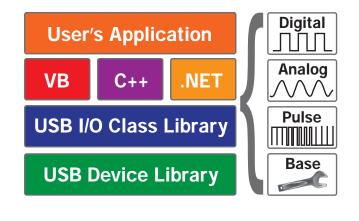
USB I/O Utility provides a simple way to easily test and instant acquire data for all ICP DAS USB I/O series modules without programming.

- 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 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.



Applications

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

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■ System Specifications

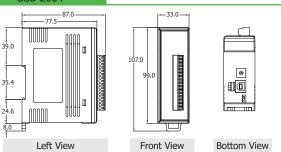
-			
Model	USB-2064	USB-2064-16	
USB			
Specification	USB 2.0 Full-Speed (12Mbps)		
CPU Module			
Watchdog Timer	1 Hardware watchdog (1.6 second) 1 Software watchdog (Programmable)		
Isolation			
Intra-module Isolation	-	3000 VDC	
EMS Protection			
ESD (IEC 61000-4-2)	4 kV contact for each terminal 8 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		
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■ I/O Specifications

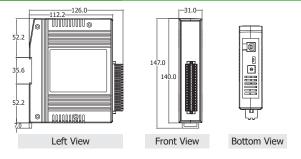
Model	USB-2064	USB-2064-16	
Relay Output			
Channels	8 x Form A (SPST-NO) 16 Form A (SPST-NO)		
Contact Rating	5 A @ 250 VAC (47 ~ 63 Hz) 5 A @ 30 VDC	3 A @ 250 VAC (47 ~ 63 Hz) 3 A @ 30 VDC	
Operate Time	10 ms (Max.)		
Release Time	5 ms (Max.)		
Electrical Endurance	1 x 10 ⁵ ops		
Mechanical Endurance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

■ Dimensions (Units: mm)

USB-2064

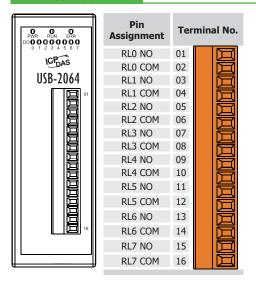


USB-2064-16

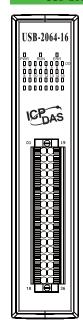


Pin Assignments

USB-2064



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	80		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

■ Wire Connections

Output	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0		
Relay Contact	RLx NO RLx COM	Load □ RLx NO RLx COM		

■ Ordering Information

USB-2064 CR	USB I/O Module with 8-ch Power Relay (RoHS) Includes CA-USB15 Cable (USB 2.0 A-Male to B-Male Cable, w/Ferrite Core, 1.5 M)
USB-2064-16 CR	USB I/O Module with 16-ch Power Relay (RoHS) Includes CA-USB15 Cable (USB 2.0 A-Male to B-Male Cable, w/Ferrite Core, 1.5 M)

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