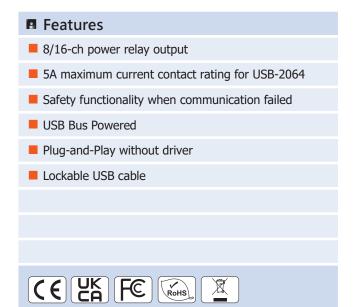




USB I/O Module with 8-ch Power Relay



USB-2064-16
USB I/O Module with 16-ch
Power Relay



■ Introduction

The USB-2064 and USB-2064-16 are full-speed USB 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			
Status	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			

Applications

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

■ I/O Specifications

Model	USB-2064	USB-2064-16		
Relay Output				
Channels	8 x Form A	16 Form A		
	(SPST-NO)	(SPST-NO)		
	5 A @ 250 V _{AC}	3 A @ 250 VAC		
Contact Rating	(47 ~ 63 Hz)	(47 ~ 63 Hz)		
	5 A @ 30 V _{DC}	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			
	Between Open Contact:			
Surge Strength	1000 VAC (1 Min.)			
Surge Strength	Between Coil and Contacts:			
	3000 V _{AC} (1 Min.)			
Power on Value	-	Yes, Programmable		
Safe Value	-	Yes, Programmable		
Intra-module Isolation	n - 3000 V _{DC}			

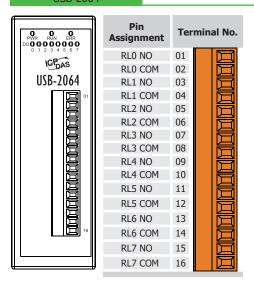
■ Wire Connections

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		

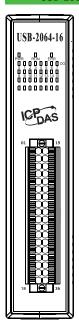
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■ Pin Assignments

USB-2064



USB-2064-16



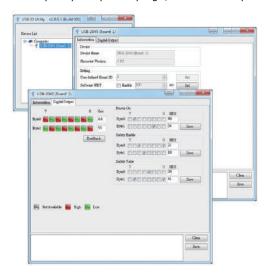
Pin Assignment		Terminal No.	•	Pin Assignment
NO0	01		19	COM0
NO1	02		20	COM1
NO2	03		21	COM2
NO3	04		22	COM3
NO4	05		23	COM4
NO5	06		24	COM5
NO6	07		25	COM6
NO7	80		26	COM7
N/A	09		27	N/A
N/A	10		28	N/A
NO8	11		29	COM8
NO9	12		30	COM9
NO10	13		31	COM10
NO11	14		32	COM11
NO12	15		33	COM12
NO13	16		34	COM13
NO14	17		35	COM14
NO15	18		36	COM15

Software

USB I/O Utility

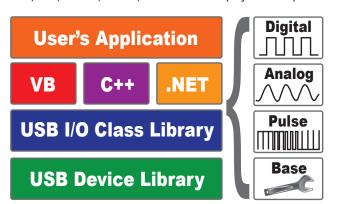
USB I/O Utility provides a simple way to easily test and instant acquire data for all ICP DAS USB I/O series modules without programming.

- 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

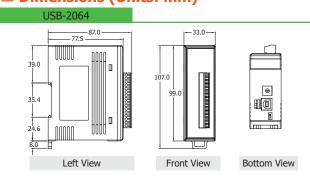


VB/C++/C#.NET/VB.NET/LabVIEW SDK

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-2064-16 52.2 Left View Front View Bottom View

■ Ordering Information

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)