www.icp-australia.com.au



USB-2000 series compact I/O





■ Introduction _

The USB-2084 is a full-speed USB device with 8-channel for Frequency and Up Counters, or 4-channel for Up/Down, Dir/Pulse and A/B Phase Counters, and offers features for industrial control and manufacturing test applications, such as factory automation or embedded machine control. 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 a peripheral.

The USB I/O utility can help users to configure and test USB-2084 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-2084 is the perfect way to add measurement and control capability to any USB capable computer.

Application

- Counter measurement
- Frequency measurement
- Motion control

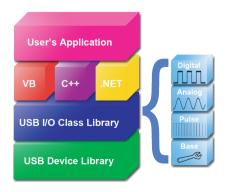
Pin Assignment -

Terminal No	. Pin Assignment
[o 01	C0A+
[0 02	COA-
[o 03	COB+
2 0 04	COB-
05	C1A+
06	C1A-
03 1 0 04 1 0 05 1 0 06 1 0 08 1 0 08	C1B+
30 08	C1B-
09	C2A+
[0 10	C2A-
[0 11 [0 12	C2B+
0 12	C2B-
[0 13	C3A+
0 14	C3A-
C = 14 C = 15 C = 16 C = 17	C3B+
[a 16	C3B-
C - (17	GND
18	GND
[n 19	N.C
20	N.C

■ 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.



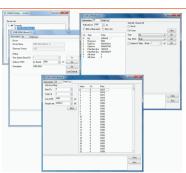


■ Software

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

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Input				
Channels		4 channels for Up/Down, Dir/Pulse and A/B Phase types 8 channels for Up and Frequency types		
Input Type	Up, Frequency, Up/Down, Dir/Pulse, A/B Phase			
Resolution	32 bit	32 bit		
Input Frequency		Non-isolated: 500KHz maximum Isolated: 250KHz maximum		
Digital Noise Filter	1~32767uS (Softwa	1~32767uS (Software programmable)		
Frequency Accuracy	±0.4%	±0.4%		
Isolated Input Level	On Voltage Level Off Voltage Level			
Non-isolated Input Level (TTL)	On Voltage Level Off Voltage Level			
Intra-Module Isolation, Field-to-Logic	2500 V _{DC}	2500 V _{DC}		
Individual Channel Configuration	Yes	Yes		
Communication				
Interface	USB 2.0 Full-Speed	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 LED for all channe	8 LED for all channels		
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	33mm × 102mm × 107mm		
Environment				
Operating Temperature	-25 ~ +75℃	-25 ~ +75°C		
Storage Temperature	-40 ~ +85°C			
Humidity	10 ~ 95% RH, non-	10 ~ 95% RH, non-condensing		
Power				
Power Consumption	Maximum: 1.11W	Maximum: 1.11W		

Ordering Information -

USB-2084 4/8-channel Counter/Frequency/Encoder Module (RoHS)