I/O Cards

PCI-M512U

Universal PCI, 512 KB Memory Board with DIO



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Features **>>>>**

- Universal PCI (3.3 V/5 V) interface
- Two Li-batteries for battery-backup the data of SRAM
- 16-ch 5 V TTL D/O 12-ch 5 V TTL D/I



- On-board 512 KB SRAM LED indicators for low- and bad-battery status Drop-in replacement for the PCI-M512
- 4-bit battery status Readback (DI0~3)

Introduction -

The PCI-M512U provides battery-backup 512 KB SRAM, 12-bit D/I and 16-bit D/O. In addition, the PCI-M512U supports both 5 V and 3.3 V PCI bus. The PCI-M512U (Universal PCI version) is designed as a drop-in replacement for the PCI-M512 (PCI version), so users can replace a PCI-M512 by a PCI-M512U directly without any software or driver modification.

The PCI-M512U is equipped with two Li-batteries to maintain the content of the 512 KB SRAM when PC power loss occurs. The two Li-batteries can continue supplying power to the SRAM to retain the important data for 10 years. The two-battery design also makes it safe to replace new batteries without losing data; when one battery is taken out for replacing a new one, the other continues to provide power to the SRAM.

4 LED indicators on the board are provided for giving clear understanding of the battery states such as normal, low voltage or fault. The PCI-M512U is an ideal solution for improving system reliability.

🖊 Software –

- DOS Lib and TC/BC/MSC sample program (with source codes)
- VB/VC/Delphi/BCB/VB.NET/C#.NET sample programs with source codes

🗸 Hardware Specifications 🛛 ——— 🗾 🏹 Pin Assignments

Digital I/O				
I/O Channels	D/I: 12-ch, D/O: 16-ch , 5 V TTL			
Input Voltage	Logic 0: 0.8 V max., Logic 1: 2.0 V min.			
Output Voltage	Logic 0: 0.4 V max., Logic 1: 2.4 V min.			
Output Capability	Sink: 2.4 mA @ 0.8 V, Source: 0.8 mA @ 2.0 V			
Response Speed	1.4 MHz(Typical)			
Special				
SRAM Size	512 KB			
Li-Battery	BT1 and BT2			
Battery Status bits	BT1 Low, BT1 Bad, BT2 Low, BT2 Bad			
	(low voltage=2.3 V, bad voltage=2.1 V)			
LED Indicators	BT1 Low (Green), BT1 Bad (Red)			
	BT2 Low (Green), BT2 Bad (Red)			
General				
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz,			
	32-bit, Plug and Play			
Connectors	20-pin box header x2			
Power Consumption	420 mA @ +5 V			
Operating Temperature	-20 °C ~ +60 °C			
Storage Temperature	-40 °C ~ +85 °C			
Humidity	0 ~ 90% RH, non-condensing			

Ordering Information

PCI-M512U CR	Universal PCI, 512 KB Memory Board with DIO (RoHS)
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• DLL and OCX SDK for 32-bit and 64-bit Windows XP/2003/Vista/2008/7 • Supports LabVIEW and Linux

CN1								
	1		2	DO 1				
DO 2	3		4	DO 3				
DO 4	5	\mathbb{R}^{\times}	6	DO 5				
DO 6	7		8	DO 7				
DO 8	9		10	DO 9				
DO 10	11		12	DO11				
DO 12	13		14	DO13				
DO 14	15		16	DO15				
GND	17		18	GND				
+5V	19		20	+12V				

CN2								
	1		2					
	3		4	_				
DI 4	5		6	DI 5				
DI 6 _	7		8	_ DI 7				
	9		10	_ DI 9				
DI 10	11		12	_ DI 11				
DI 12_	13		14	_ DI 13				
DI 14	15		16	_ DI 15				
GND.	17	Lõõ.	18	_ GND				
+5V	19		20	_ +12V				
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