

PCI-M512/PCI-M512U

Memory board with DI/DO



PCI-M512



PCI-M512U

Features

- On-board 512K bytes SRAM for PCI-M512/PCI-M512U
- Two Li-batteries, BT1 & BT2, for battery-backup the data of SRAM
- Two indicators, low-battery & bad-battery, for battery BT1
- Another two indicators, low-battery & bad-battery, for battery BT2
- 16-bit general purpose TTL-compatible D/O or relay (with daughter board DB-16R or DB-24PR)
- 12-bit general propose TTL-compatible D/I or isolated input (with daughter board DB-16P)
- PCI-M512U supports 5V and 3.3V PCI bus

Functional Description

The PCI-M512/PCI-M512U provides 512K bytes memory.

They consist of one 12-bit input port and one 16-bit output port. The user can use the DB-16P to connect the input ports (CN2) for isolation purpose, or use DB-16R to interface to the output ports (CN1) for relay control.

Specifications

Digital Input

- Number of channels: 12
- All inputs are TTL compatible
- Logic high voltage: 2.4V min
- Logic low voltage: 0.8V max

Digital Output

- Number of channels: 16
- All outputs are TTL compatible
- Sink current: 24 mA max
- Source current: 15 mA max

Comparison Table of PCI-M512/PCI-M512U

Device	PCI-M512	PCI-512U
Interface	PCI Bus	Universal PCI
SRAM Size	512K bytes	
Memory Access	32-bit	
Sub-device ID for auto detection	0x0512	
I/O Access	16-bit	
Li-Battery	BT1&BT2	
Battery Status bits	BT1 Low, BT1 Bad, BT2 Low, BT2 Bad (low voltage=2.3V, bad voltage=2.1V)	
LED indicators	BT1 Low(Green),BT1 Bad(Red) BT2 Low(Green),BT2 Bad(Red)	
D/I	12-channel, TTL compatible	
D/O	16-channel, TTL compatible	

General Specifications

- PCI-M512/PCI-M512U power requirements: +5V @ 420 mA
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90 % non-condensing
- Storage temperature: -40 ~ 85°C
- Dimensions: 140 mm x 90 mm

Pin Assignment

CN1				CN2					
DO 0	1	○	2	DO 1	NC	1	○	2	NC
DO 2	3	○	4	DO 3	NC	3	○	4	NC
DO 4	5	○	6	DO 5	DI 4	5	○	6	DI 5
DO 6	7	○	8	DO 7	DI 6	7	○	8	DI 7
DO 8	9	○	10	DO 9	DI 8	9	○	10	DI 9
DO 10	11	○	12	DO 11	DI 10	11	○	12	DI 11
DO 12	13	○	14	DO 13	DI 12	13	○	14	DI 13
DO 14	15	○	16	DO 15	DI 14	15	○	16	DI 15
GND	17	○	18	GND	DI 17	17	○	18	DI 17
+5V	19	○	20	+12V	DI 19	19	○	20	+12V

Ordering Information

Standard

- PCI-M512:** PCI bus 512K bytes memory board
- PCI-M512U:** Universal PCI 512K bytes memory board

Optional

- DB-16P:** 16-channel isolated D/I board
- DB-16R:** 16-channel relay board
- DB-24PR:** 24-channel power relay board
- DB-24POR:** 24-channel Photo Mos relay output board
- DB-24C:** 24-channel open-collector output board
- DB-24OD:** 24-channel open-drain output board
- DB-8025:** General screw terminal board
- DN-20:** DIN-rail mounting terminal board