

[DIGITAL I/O] Low Profile PCI / PCI

For options, please see Page J-02 (Accessories & Cables) and Page I-01 (Software). See page 2-1 for PCI bus specifications.

Standard PCI/Low Profile PCI TTL-Level Digital I/O

PIO-16/16T(LPCI)H



Includes API-PAC(W32) [API Function Library]

SPECIFICATIONS

Input channels	16
Output channels	16
I/O Circuit	
Signal level	5VDC
Internal power	-
Input specifications	
Type	TTL level (negative logic)
Interrupts	6 input signals combine to one interrupt request signal as INTA
Resistance	10kΩ
Output specifications	
Type	Open Collector (negative logic)
Rating	30VDC 40mA
Response time	200nsec (max)

FEATURES

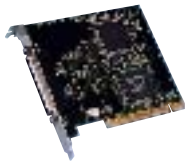
- ★ Low Profile PCI-compliant (Standard-size bracket included)
- ★ 16 points TTL-level input, 16 points open collector output (40mA sink current max)
- ★ All input signals can be used as interrupts
- ★ Digital filter and interrupt trigger edge can be set via software

Wiring distance	1.5m (max)
I/O address	Any 32-byte boundary
Power consumption	5VDC 100mA (max)
PCI bus / Dimensions (mm)	32bit, 33MHz, 5V or 3.3V*4 / 121.69(L) x 63.41(H)
Connector	50-Pin Mini-Ribbon Connector 10250-52A2JL[3M] or equivalent
Options	
Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP,
Accessories	EPD-50A*1, EPD-37A*2, EPD-37 *2, DTP-3(PC)*3, DTP-4(PC)*3, CM-32(PC)E *2
Cables / Connectors	PCA50PS-0.5P/1.5P, PCB50PS-0.5P/1.5P, PCE50/37PS-0.5P

\*1: Requires use of optional cable PCB50PS  
\*2: Requires use of optional cable PCE50/37PS-0.5P and PCB37P or PCB37PS  
\*3: Requires use of optional cable PCE50/37PS-0.5P  
\*4: +5V power must be supplied from PCI bus slot.

TTL-Level Digital I/O

PIO-16/16T(PCI)



Includes API-PAC(W32) [API Function Library]

SPECIFICATIONS

Input channels	16
Output channels	16
I/O Circuit	
Signal level	5VDC
Internal power	-
Input specifications	
Type	TTL level (negative logic)
Interrupts	4 input signals combine to one interrupt request signal as INTA
Resistance	10kΩ
Output specifications	
Type	Open Collector (negative logic)
Rating	30VDC 40mA
Response time	200nsec (max)

FEATURES

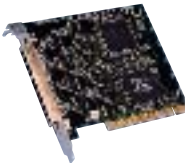
- ★ 16 points TTL-level input, 16 points open collector output (40mA sink current max)
- ★ Digital filter and interrupt trigger edge can be set via software
- Connector pin assignment is compatible with PIO-16/16T(PC)H

Wiring distance	1.5m (max)
I/O address	Any 32-byte boundary
Power consumption	5VDC 400mA (max)
PCI bus / Dimensions (mm)	32bit, 33MHz, 5V / 121.69(L) x 106.68(H)
Connector	37-pin female D-type DCL-J37SAF-20L9[JAE] or equivalent
Options	
Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP,
Accessories	EPD-37A*1, EPD-37 *1, DTP-3(PC), DTP-4(PC), CM-32(PC)E *1
Cables / Connectors	PCA37P-1.5, PCB37P-1.5, PCA37PS-0.5P/1.5P, PCB37PS-0.5P/1.5P, CN5-D37M

\*1: Requires use of optional cable PCB37P or PCB37PS

TTL-Level Digital I/O

PIO-32/32T(PCI)



Includes API-PAC(W32) [API Function Library]

SPECIFICATIONS

Input channels	32
Output channels	32
I/O Circuit	
Signal level	5VDC
Internal power	-
Input specifications	
Type	TTL level (negative logic)
Interrupts	4 input signals combine to one interrupt request signal as INTA
Resistance	10kΩ
Output specifications	
Type	Open Collector (negative logic)
Rating	30VDC 40mA
Response time	200nsec (max)

FEATURES

- ★ 32 points TTL-level input, 32 points open collector output
- ★ Digital filter and interrupt trigger edge can be set via software.
- Connector pin assignment is compatible with PIO-32/32T(PC)H

Wiring distance	1.5m (max)
I/O address	Any 32-byte boundary
Power consumption	5VDC 500mA (max)
PCI bus / Dimensions (mm)	32bit, 33MHz, 5V / 121.69(L) x 106.68(H)
Connector	PCR-E96LMD [HONDA Tsushin Kogyo] or equivalent
Options	
Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP,
Accessories	DTP-3(PC)*1, DTP-4(PC)*1, DTP-64(PC) *2, EPD-96 *2, CCB-96 *2, CM-32(PC)E *1, CM-64(PC)E *2
Cables / Connectors	PCA96P-1.5, PCB96P-1.5, PCB96W-1.5, PCA96PS-0.5/1.5, PCB96PS-0.5/1.5, PCB96WS-1.5P, CN5-H96F

\*1: Requires use of optional cable PCB96W or PCB96WS  
\*2: Requires use of optional cable PCB96P or PCB96PS

High Current Drive Bi-Directional Digital I/O

PIO-48D(PCI)



Includes API-PAC(W32) [API Function Library]

SPECIFICATIONS

Input channels	48
I/O Circuit	
Signal level	DC5V
Internal power	-
Input specifications	
Type	TTL level (positive logic)
Interrupts	48 input signals combine to one interrupt request signal as INTA
Resistance	10kΩ
Output specifications	
Type	TTL level (positive logic)
Rating	5VDC I <sub>OL</sub> =24mA, I <sub>OH</sub> =-15mA
Response time	200nsec (max)

FEATURES

- ★ 48 TTL current drive bi-directional digital I/O / Emulates i8255 PPI mode 0.
- All 48 input signals are capable of generating interrupt requests

Wiring distance	1.5m (max)
I/O address	Any 32-byte boundary
Power consumption	5VDC 600mA (max)
PCI bus / Dimensions (mm)	32bit, 33MHz, 5V / 176.41(L) x 106.68(H)
Connector	PCR-E96LMD [HONDA Tsushin Kogyo] or equivalent
Options	
Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP,
Accessories	EPD-96 *1, DTP-64 *1
Cables / Connectors	CN1: PCA96PS-1.5, PCB96PS-1.5, PCA96P-0.5/1.5, PCB96P-0.5/1.5, CN5-H96F CN2, 3: PCA50J-1.5, DT/F4

\*1: Requires use of optional cable PCB96P or PCB96PS

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DIGITAL I/O

Product Lineup / Basic Knowledge

PCI

Compact PCI

PC Card

USB

Product Lineup (ISA)

ISA