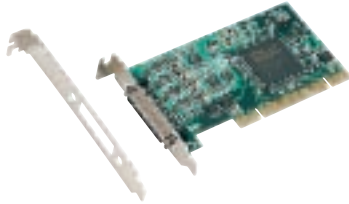


[ANALOG I/O | Standard I/O] Low Profile PCI / PCI

For options, please see Page J-08 (Accessories & Cables) and Page I-01 (Software). Please see Page 2-1 for PCI bus specifications.

Low Profile PCI / PCI
Low-Cost Digital to Analog Output
DA16-4(LPCI)L



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

BNC Terminal Unit for Analog I/O (8ch) ATP-8L



SPECIFICATIONS

Analog Outputs	
Channels	4
Range	Bipolar: $\pm 10V$
Impedance	1Ω or less
Resolution	16bit
Nonlinearity error	$\pm 5LSB$
Conversion speed	$10\mu sec/ch$ (Max.)
Buffer memory	1k Word
Digital I/O	
Input	4 TTL (positive logic)
Output	4 TTL (positive logic)
Counter	
Number of channels	1
Count System	32-bit Up counter
Count	32-bit binary data (max)

- FEATURES**
- Low Profile PCI - compliant (Includes bracket for use in Standard PCI slot)
 - Provides high-precision analog input/output, digital input/output, counter functions
 - Supports timed and synchronized output with external signals
 - 1k data buffer memory enables background processing
 - Features software for analog input / output correction

Interrupts	One interrupt request signal as INTA
I/O address	Any 64-byte boundary
Power Consumption	5VDC 440mA (max)
Connector	10250-52A2JL[3M] or equivalent
PCI Bus /	32bit, 33MHz, 5V or $3.3V^{*2}$ /
Dimensions (mm)	121.69(L) x 63.41(H)
Options	
Software	-
Accessories	EPD-50A *1, ATP-8L *1*3
Cables / Connectors	PCB50PS-0.5P/1.5P, PCA50PS-0.5P/1.5P

*1: Requires use of optional cable PCB50PS-0.5P/1.5P
*2: +5V power must be supplied from PCI bus slot.
*3: Maximum of 8 analog input channels available

Digital to Analog Output
DA12-4(PCI)



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

SPECIFICATIONS

Output channels	4
Resolution	12bit
Output specifications	
Range	$\pm 10V, \pm 5V, 0\sim +10V$ (each channel software selectable)
Rating	$\pm 5mA$
Conversion speed *1	$10\mu sec/ch$ (Max.)
Conversion Accuracy	$\pm 3LSB$
Impedance	10Ω or less
Trigger signal	1 TTL level input
Isolation	-
Timer	$0.5\mu sec\sim 17min$ (Steps of 250nsec - software selectable)
Interrupt	
Request Events	8 modes
Request Levels	One interrupt request signal as INTA

- FEATURES**
- 4 12-bit channels for converting digital signals to analog voltages
 - Can update the output voltage through use of a sampling clock
 - Independent, TTL-level external trigger input function

I/O address	Any 32-byte boundary
Power Consumption	5VDC 600mA (max)
Connector	37-pin female D-type
PCI Bus /	32bit, 33MHz, 5V /
Dimensions (mm)	176.41(L) x 106.68(H)
Options	
Software	ACX-PAC(W32)BP
Accessories	DTP-3(PC), DTP-4(PC), EPD-37A *2, EPD-37 *2, ATP-16 *2
Cables / Connectors	PCA37P-1.5, PCB37P-1.5, PCA37PS-0.5P/1.5P, PCB37PS-0.5P/1.5P, PCC16PS, CN5-D37M

*1: Actual conversion speed depends upon the operating system and software.
*2: Requires use of optional cable PCB37P or PCB37PS

Digital to Analog Output
DA12-8(PCI)



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

SPECIFICATIONS

Output channels	8
Resolution	12bit
Output specifications	
Range	$\pm 10V, \pm 5V, 0\sim +10V$ (each channel software selectable)
Rating	$\pm 5mA$
Conversion speed *1	$10\mu sec/ch$ (max)
Conversion Accuracy	$\pm 3LSB$
Impedance	10Ω or less
Trigger signal	1 TTL level input
Isolation	-
Timer	$0.5\mu sec\sim 17min$ (Steps of 250nsec - software selectable)
Interrupts	
Request Events	8 modes
Request Levels	One interrupt request signal as INTA

- FEATURES**
- 8 12-bit channels for converting digital signals to analog voltages
 - Updates output voltage through use of sampling clock
 - Independent, TTL-level external trigger input function

I/O address	Any 32-byte boundary
Power Consumption	5VDC 800mA (max)
Connector	37-pin female D-type
PCI Bus /	32bit, 33MHz, 5V /
Dimensions (mm)	176.41(L) x 106.68(H)
Options	
Software	ACX-PAC(W32)BP
Accessories	DTP-3(PC), DTP-4(PC), EPD-37A *2, EPD-37 *2, ATP-16 *2
Cables / Connector	PCA37P-1.5, PCB37P-1.5, PCA37PS-0.5P/1.5P, PCB37PS-0.5P/1.5P, PCC16PS, CN5-D37M

*1: Actual conversion speed depends upon the operating system and software.
*2: Requires use of optional cable PCB37P or PCB37PS

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ANALOG I/O

Product Lineup / Basic Knowledge

F Series Multi-Function I/O

Features

PCI

PC Card

E Series Intelligent I/O

Features

PCI

ISA

Standard I/O

Low Profile PCI / PCI

PC Card

USB

ISA