

4 Channels 24-Bit Up/Down Counter Board CNT24-4(PCI)



API function library attachment [API-PAC(W32)]

FEATURES

- 24-bit up/down counter for 4 channels
- Counts 2 phase signals from devices like rotary encoders or linear gauges
- The board is equipped with a programmable timer

SPECIFICATIONS

Channels	4ch
Counting system	24-bit up/down counter
Input type	single-phase or two-phase pulse input
Response frequency	TTL-level : 1MHz (duty 50%), Opto-isolated input : 500KHz (duty: 50%)
Timer	1msec-200sec
Max. count	24 bits (binary data)
Input specification	TTL-level input, Opto-isolated input : 5 - 12VDC , (Input resistor : 220 Ω)
Interrupt	Generates by each channel count coincidence or timer runs out of preset time
I/O address	4 port occupation
Other function	Filter, Counter coincidence signal output
Power consumption (Max.)	+5VDC 400mA

Connector	Opto-isolated : DCLC-J37SAF-20L9 [JAE] or equivalent TTL-level input : PS-30PE-D4TIPNI [JAE] or equivalent
PCI bus/ Dimension (mm)	32bit, 33MHz, 5V/ 176.41(L)x106.68(H)
Option	
Software	ACX-PAC(W32)BP , ACX-PAC(W32)AP, DDE SERVER(W32)
Accessories	DTP-3(PC), DTP-4(PC), EPD-37*1
Cables/ Connector	PCA37P, PCB37P, PCA37PS, PCB37PS, DT/O, DT/B2, CN5-D37M

*1:Option cable of PCB37P or PCB37PS is required.

4 Channels 24-Bit Differential Up/Down Counter Board CNT24-4D(PCI)



API function library attachment [API-PAC(W32)]

FEATURES

- 24-bit up/down counter for 4 channels
- Counts 2 phase signals from devices like rotary encoders or linear gauges
- The board is equipped with a programmable timer
- Differential input or TTL level input for each channel

SPECIFICATIONS

Channels	4ch
Counting system	24-bit up/down counter
Input type	single-phase or two-phase pulse input
Response frequency	Line-receiver : Max 1MHz (duty 50%), TTL-level input : Max 1MHz (duty 50%)
Timer	1msec-200sec
Max. count	24 bits (binary data)
Input specification	TTL-level input, Line-receiver : Input voltage range ±7V
Interrupt	One. Generated when each channel count matches or the timer runs out of time.
I/O address	Any 32-byte boundary
Other function	Filter, Counter coincidence signal output
Power consumption (Max.)	+5VDC 500mA

Connector	PCR-E96LMD [HONDA Tsushin Kogyo] or equivalent
PCI bus/ Dimension (mm)	32bit, 33MHz, 5V/ 176.41(L)x106.68(H)
Option	
Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP
Accessories	DTP-3(PC)*1, DTP-4(PC)*1, EPD-37*1, EPD-96*2
Cables/ Connector	PCA96P, PCB96P, PCA96PS, PCB96PS, PCB96WS, CN5-H96F

*1:Option cable of PCB96WS is required

*2:Option cable of PCB96P or PCB96PS is required.

PCI Bus Master High Speed 8 Channels 32-Bit Up/Down Counter Board CNT32-8M(PCI) NEW



API function library attachment [API-PAC(W32)]

FEATURES

- 32 bit up-down count for 8 channels can be performed with one board.
- Double-phase signals such as rotary encoder and linear gauge can be counted.
- Disconnection can be detected at the time of differential input.
- With bus master transfer, data transfer between the board and PC can be performed at a speed of 80MB/sec(max.133MB/sec) without applying additional load on PC.
- Synchronous control connector easily enables the synchronous operation between the boards regardless of their types.

SPECIFICATIONS

Channels	8ch
Counting system	32-bit up/down counter (Two-phase/Single-phase/Single-phase with Gate control)
Input type	Phase A / UP at each channel Phase B/DOWN One x 8 channels Phase Z/CLR at each channel
Response frequency	Line-receiver : 10MHz (duty 50%) TTL-level : 10MHz (duty 50%)
Timer	1-6553msec (specifiable in steps of 1msec)
Max. count	32 bits (binary data)
Input specification	TTL-level input, Line-receiver : Input voltage range ±7V
Interrupt	1 interrupt (Factor of interrupt: count matches, counter error, SCC error, carry/borrow, timer, etc.)

I/O address	32 port, 64 port
Other function	Low-pass filter, Count coincidence pulse output, a test pulse output, disconnection alarm detection
Power consumption (Max.)	+5VDC, 1A
Connector	PCR-E96LMD [HONDA Tsushin Kogyo] or equivalent PS-10PE-D4L1-B1[JAE] or equivalent x 2
PCI bus/ Dimension (mm)	32bit, 33MHz, 5V/ 176.41(L)x106.68(H)
Option	
Software	-
Accessories	EPD-96*1, DTP-64(PC)*1
Cables/ Connector	PCB96PS-1.5, PCB96P-1.5, PCA96PS- 1.5, PCA96P-1.5, CN5-H96F

*1:Option cable of PCB96 or PCB96PS is required.

Functions

Bus master function

It periodically samples the count data using the internal or external clock.

Diverse input/output control function

It enables the external input signals to be set to preset/zero clear of the count value and counter start. It can also output one-shot pulse to the outside in the event of an error or count match.

Differential counter

In addition to the normal counter function, differential counter is also provided in a specified cycle.

Interrupt event function

Various interrupt event functions are provided including count match, time-up, occurrence of an error, generation of carry/borrow and completion of sampling.

Counter

Lineup/Basic Knowledge

PCI Bus

USB

ISA Bus

Motor Controller

Lineup

PCI Bus

ISA Bus