D-06

COUNTER/MOTOR CONTROL

Lineup / Basic Knowledge

PCI Bus

USB

ISA Bus

PCI Bus

ISA Bus

High-Speed 2 Axis Motor Control Board SMC-2P(PCI)

The board supports a stepping motor or servo motor (pulse train input type)

●The board can store up to 1000 frames each of which carries the information required for a single positioning sequence, such as the speed, acceleration/deceleration rates, and target location

●The board can control multiple axes (up to 32 axes) in synchronization



■SPECIFICATIONS

Channels	2 axis
Pulse output	Open collector output(Software
type	selectable logic, positive or negative)
Signal format	CW/CCW or pulse/direction
Pulse rate	0.1-1,000,000PPS
Encoder Input	
Input signal type	single-phase Input (UP/DOWN/Z), Phase input (A/B/Z)
Signal type	High-speed opto-Isolated input
Response frequency	1MHz
Input resistance	Α.Β:220Ω/Ζ:510Ω
Limit signal	
Signal channels	3 signals/ch (ORG, +LIM, -LIM)
Signal type	Opto-Isolated input (12-24VDC)
Input resistance	3kΩ
General Purpose Input	
Signal channels	7 signals/ch
Signal type	Opto-Isolated input (12-24VDC)
Input resistance	IN1, IN3-IN7: 3KΩ, IN2:1.8KΩ

General Purpose Output	
Signal channels	3 signals/ch
Signal type	Open collector output
Output rating	+35VDC 100mA
Controller chip	PCL5014 [NPM]
Interrupt	-
I/O address	Any 16-byte boundary
Power consumption (Max.)	+5VDC 800mA
Connector	PCR-E96LMD [HONDA Tsushin Kogyo] or equivalent
PCI bus/	32bit, 33MHz, 5V/
Dimension (mm)	176.41(L)x106.68(H)
Option	
Software	-
Accessories	CCB-SMC1*1
Cables/	PCA96P, PCB96P, PCA96PS,
Connector	PCB96PS, CN5-H96F

^{*1:}Option cable of PCB96P or PCB96PS is required.

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

High-Speed 4 Axis Motor Control Board SMC-4P(PCI)

●The board supports a stepping motor or servo motor (pulse train input type)

- The board can store up to 1000 frames each of which carries the information required for a single positioning sequence, such as the speed, acceleration/deceleration rates, and target location
- ●The board can control multiple axes (up to 64 axes) in synchronization



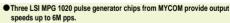
■SPECIFICATIONS

Channels	4 axis
Pulse output	Open collector output(Software
type	selectable logic, positive or negative)
Signal format	CW/CCW or pulse/direction
Pulse rate	0.1-1,000,000PPS
Encoder Input	
Input signal type	single-phase Input (UP/DOWN/Z), Phase input (A/B/Z)
Signal type	High-speed opto-Isolated input
Response frequency	1MHz
Input resistance	Α.Β:220Ω/Ζ:510Ω
Limit signal	
Signal channels	3 signals/ch (ORG, +LIM, -LIM)
Signal type	Opto-Isolated input (12-24VDC)
Input resistance	3kΩ
General Purpose Input	
Signal channels	7 signals/ch
Signal type	Opto-Isolated input (12-24VDC)
Input resistance	IN1, IN3-IN7: 3KΩ, IN2:1.8KΩ

General Purpose Output	
Signal channels	3 signals/ch
Signal type	Open collector output
Output rating	+35VDC 100mA
Controller chip	PCL5014 [NPM]
Interrupt	-
I/O address	Any 16-byte boundary
Power consumption (Max.)	+5VDC 900mA
Connector	PCR-E96LMD [HONDA Tsushin Kogyo] or equivalent
PCI bus/	32bit, 33MHz, 5V/
Dimension (mm)	176.41(L)x106.68(H)
Option	
Software	-
Accessories	CCB-SMC1*1
Cables/	PCA96PS, PCB96PS, PCA96P,
Connector	PCB96P, CN5-H96F
*1:Option cable of PCB	96P or PCB96PS is required.

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

3 Axis Stepper Motor Controller SMC-3(PC)



Four internal interrupt request channels available, one for each MPG when pulse output is completed and one channel for all three MPGs

All channels, besides the pulse output channels, are opto-isolated from the







■SPECIFICATIONS

Channels	3ch
Pulse output	Open collector output(Software
type	selectable logic, positive or negative)
Output signal	CW/CCW or pulse/direction
Pulse rate [pps]	92-6Mpps
Limit signal	
Signal	4 signals/ch (ORG, +LIM, -LIM, Slow-Down)
Signal type	Opto-isolated input : 12-24VDC
Input resistance	3.3ΚΩ
General Purpose Input	
Signal	2 inputs per MPG Emergency stop option
	(jumper selectable) 2 outputs per MPG
Signal type	Opto-isolated input : 12-24VDC
Input resistance	3.3ΚΩ

^{*1:}Option cable of PCB37P or PCB37PS is required

General Purpose Output	
Signal	2 channels/ch
Signal type	Opto-Isolated Open Collector Output
Output rating	+35VDC, 200mA(Max.)
Controller chip	MPG1020x3(MYCOM)
Interrupt	IRQ 3-7, 9-12, 14 and 15
I/O address	4 port occupation
Power consumption (Max.)	+5VDC 600mA
Connector	37-pin female D-type
Bus/ Dimension (mm)	AT Bus /163.0(L)x122.0(H)
Option	
Software	API-PAC(W32)
Accessories	DTP-3(PC), DTP-4(PC), EPD-37*
Cables/	PCA37P, PCB37P, PCA37PS,
Connector	PCB37PS