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

FEATURES
- 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

PCI CE

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

■SPECIFICATIONS

Channels	2 axis
Pulse output type	Open collector output(Software 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	A.B:220Ω/Z: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/ Dimension (mm)	32bit, 33MHz, 5V/ 176.41(L)x106.68(H)
Option	
Software	-
Accessories	CCB-SMC1*1
Cables/ Connector	PCA96P, PCB96P, PCA96PS, PCB96PS, CN5-H96F

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

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

FEATURES
- 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

PCI CE

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

■SPECIFICATIONS

Channels	4 axis
Pulse output type	Open collector output(Software 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	A.B:220Ω/Z: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/ Dimension (mm)	32bit, 33MHz, 5V/ 176.41(L)x106.68(H)
Option	
Software	-
Accessories	CCB-SMC1*1
Cables/ Connector	PCA96PS, PCB96PS, PCA96P, PCB96P, CN5-H96F

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

3 Axis Stepper Motor Controller
SMC-3(PC)

FEATURE
- Three LSI MPG 1020 pulse generator chips from MYCOM provide output speeds up to 6M pps.
- 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 outside source

ISA Non Isolated CE

■SPECIFICATIONS

Channels	3ch
Pulse output type	Open collector output(Software 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	3.3KΩ
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	3.3KΩ

*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*1
Cables/ Connector	PCA37P, PCB37P, PCA37PS, PCB37PS