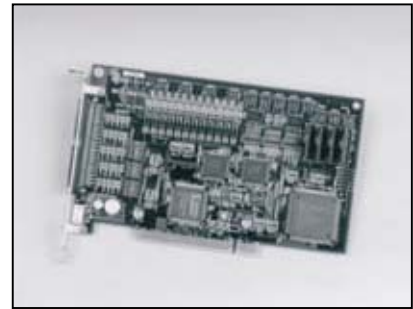


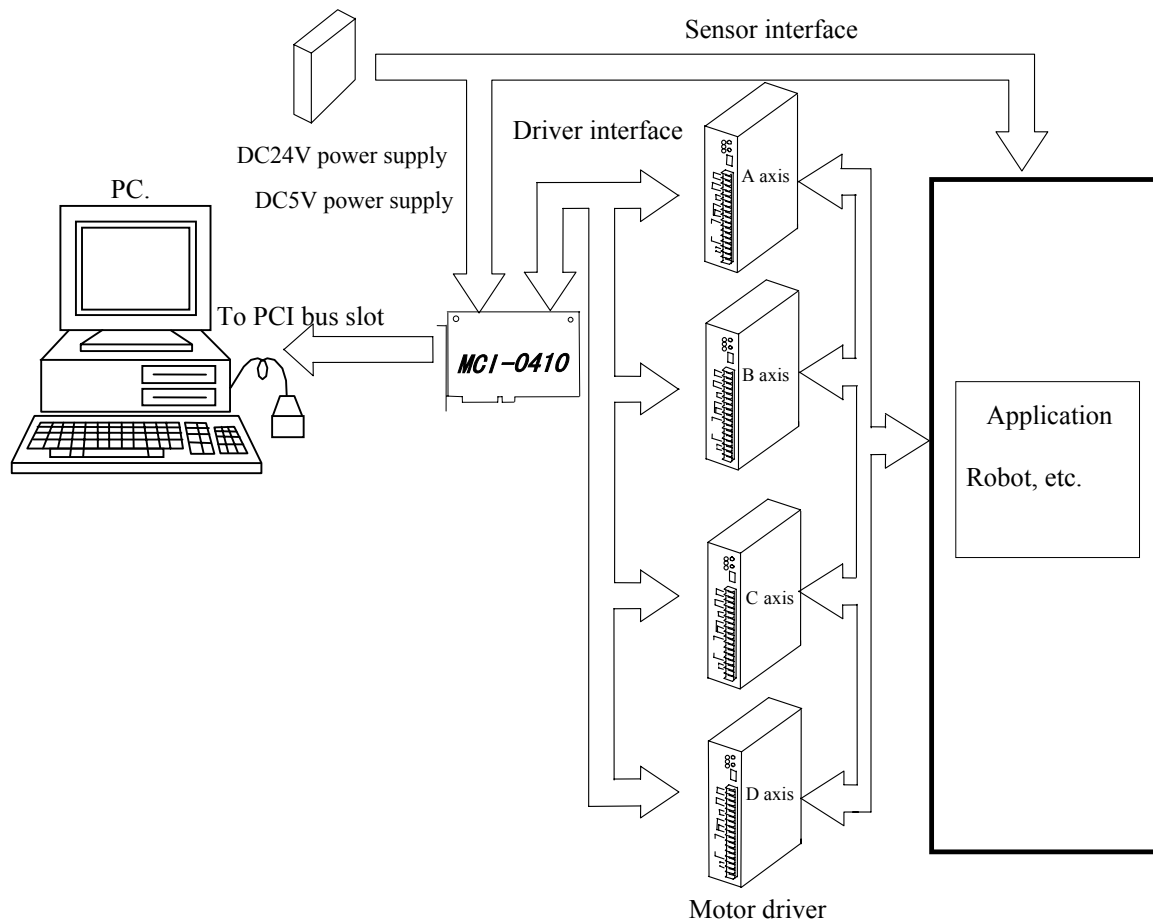
MCI-0410

4 Axes PCI-Bus Controller

MCI-0410 is a high performance 4 axes PCI-Bus motor controller module. This controller is designed to drive stepping motors or pulse train input servo motors via the MPG2031 pulse generator IC. Speed Profile, homing sequence etc are taken care by the MPG2031, making motion control programming easier. Each axis comes complete with sensor / encoder inputs eliminating the need for additional high speed input counter card.



System Configuration



Items	Contents		
Control system	Custom LSI MPG2031 Commands		
Bus specification	PCI Bus VendorID: 1453H, DeviceID:0004H, RevisionID:00H, ClassCode:050000H		
Number of axes controlled	Four axes (Named A, B, C and D)		
Applicable motors	Stepping motor and/or servo motor for positioning		
Standard clock	3.2768MHz.		
Output pulse rate	About 0.1 to about 1,638,400.0 Hz.		
Accel/decel slope	About 4.9 to 81,900,000.0 Hz./sec.		
Number of pulses set	0 to 16,777,215 pulses		
Output pulses	Output pulse format	1 pulse(clock)/ 2 pulses(clock)	
	Direction of CW clock	Forward / reverse set	
	Output signal	Photo-coupler output or line driver output setting	
	Logic	Positive logic / negative logic set	
Accel/decel system	Proportional accel/decel driving / liner accel/decel driving set		
Moving distance specific system	Absolute / Incremental distance set		
Functions	Point-to-Point (PTP) positioning Liner interpolation positioning (possible to interpolate 2 to 4 axes) Home search (Z phase counting function, Deviation counter reset signal automatic output) Position interrupt function on the way of home search or encoder input signal. Each axis can mix to set proportional accel/decel driving, triangle driving and trapezoidal		
Driver control output	Signal contents	Excitation OFF, Servo on/off and Deviation counter reset	
	Output circuit	Photo-coupler output	
	Control capacity	10mA or less, Voltage resistance: 35V	
Driver control input	Signal contents	Driver alarm and in-position. Logic can be set.	
	Input circuit	Photo-coupler input	
	Control capacity	Maximum 10mA, External 24V power supply is used.	
Encoder input	Signal contents	A/B/Z phases	
	Input circuit	Photo-coupler input (Line receiver input can be set)	
	Control capacity	Maximum 10mA	
Sensor input	Signal contents	Possible to set both ends overrun and Near home.	
	Input circuit	Photo-coupler input	
	Control capacity	Maximum 10mA, External 24V power supply is used.	
External input	Signal contents	External emergency stop (Logic can be set), One general purpose input available for each axis.	
	Input circuit	Photo-coupler input	
	Control capacity	Maximum 10mA, External 24V power supply is used.	
Resources used by PC.	Memory space	64K byte (10000H) are occupied from base address which is assigned by PCI configuration	
	Interrupt I/F	One of IRQ, which is assigned by PCI configuration, is used.	
	Board selection	Setting automatically by PCI configuration.	
Power supply	Bus logic power supply	DC+5V ±5%	1.0A or less
	Sensor I/F power supply	DC+24V(External)	0.5A or less
	Driver control power supply	DC+5V(External)	0.5A or less
Dimension of PCB	174.63 x 106.68 x 20.0 mm		
Weight	approx. 130g		

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