SC-04 PCI-SLOT BASED
3 AXIS MOTION CONTROLLER

INTERFACE

The SC-04 is an upgraded version of the SC-03 and has all the features to convert a PC into a motion control station. It plugs into the standard PCI slot of any PC. It has powerful supporting software incl.:
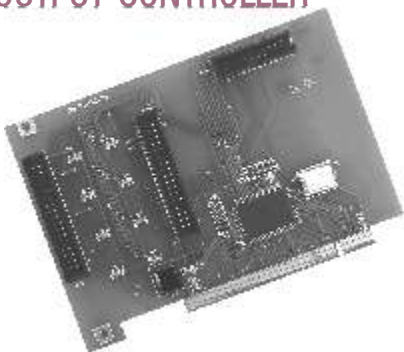
- A versatile motion control library in C/C++ for DOS and Windows 98/2K
- CNC - a full fledged machine control software supporting ISO standard G & M codes supporting 3 axis machining
- enCUT for engraving and jewelry applications,
- PCBDRILL for PCB drilling applications

INTERPOLATION : The SC-04 supports linear and circular interpolation on 3 and 2 axis respectively.
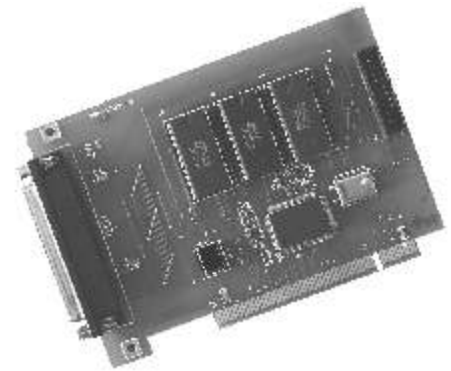
IN-BUILT PLC FUNCTIONS : 16 digital inputs (6 dedicated to limit switches) and 8 digital outputs are provided for I/O and interlocking functions.

CLOCK OR PHASE OUTPUTS : Step control output is offered conveniently either in CLOCK (CLK, DIR, RES and ENABLE) format or in PHASE (A,B,C,D) format.

- Number of axes : 3
- Half Size PC card - plugs into PCI slot
- Address selection - automatically generated
- On-the-fly Step Readback Facility
- Control Output Format : Clock or Phase
- Resolution - Full or Half step (in Phase output format)
- Digital inputs - 16 TTL inputs (6 dedicated to limit swithces)
- Digital outputs - 8 TTL outputs
- Interpolation - 3 axis linear, 2 axis circular
- Terminations - D-sub connectors and FRC headers
- Power Supply - from PC SMPS

PIO-64 PCI-SLOT BASED
INPUT / OUTPUT CONTROLLER

The PIO-64 is a PCI slot based I/O controller that has all the features to convert a PC into a machine controller. It plugs into the standard PCI slot of any PC. It is supported by drivers under DOS and Windows 98/2K. In addition, a simple but powerful appliction package, is PLC is available to enable the user to develop his applications.

TTL LEVEL I/O : The PIO-64   provides 32 inputs and 32 outputs at TTL levels. All terminations are on headers.

OPTOISOLATED INPUT MODULE :   Suitable optoisolated input modules are available to enable field inputs to be converted to TTL levels and brought into the PC. These are available as 16 input or 32 input modules.

OPTOISOLATED INPUT MODULE : Suitable optoisolated output modules are available to enable the TTL outputs from the card to drive loads. Outputs are available as Relay outputs or Open Collector. Different modules are available with 8 or 16 outputs.

MULTIPLE CARDS FOR ADDITIONAL I/O : Multiple cards (max. 3) can be used on the same PC, providing control of 192 I/Os from the same PC.

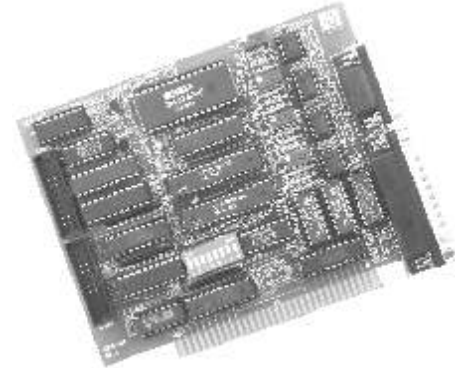|		
Half Size PC card	:	Plugs into PCI slot
Number of inputs	:	32
Number of outputs	:	32
Address selection	:	Automatically generated
Terminations	:	FRC headers
Expansion	:	Available - upto 3
Power Supply	:	From PC SMPS

The SER-05 is an upgraded version of the SER-04 controller, and has all the features to convert a PC into a motion control station. Being a 4 axis card, it is useful for **3 axis milling applications with 4th rotary axis.** It plugs into the standard ISA slot of any PC and has powerful driver software libraries (in C/C++ for DOS / Win 98/Win 2K) which enable users to build custom applications. The card can also be used as a Encoder Feedback Controller for CMM and other inspection equipment.

INTERPOLATION : The SER-05 supports linear and circular interpolation on 4 and 2 axis respectively.

IN-BUILT PLC FUNCTIONS : 16 digital inputs (6 dedicated to limit switches) and 8 digital outputs are provided for I/O and interlocking functions.

24 BIT COUNTER : The SER-05 provides 24 bit counting at speeds upto 4 MHz.

ENCODER INTERPOLATION : The SER-05 provides x 4 interpolation enabling high resolution of positioning.

- Number of axes   : 4
- Half Size PC card - plugs into ISA slot
- Address selection - Using Jumper Settings
- Control Output Format : -10.0 Volts to +10.0 Volts
- 5/12 Volt encoders supported
- 24 bit counters, upto 16777216 counts at 4 MHz
- Digital inputs - 16 TTL inputs (6 dedicated to limit swithces)
- Digital outputs - 8 TTL outputs
- Interpolation - 4 axis linear, 2 axis circular
- Terminations - D-sub connectors and FRC headers
- Power Supply - from PC SMPS
- Driver software for DOS and Windows

BLD-01 Brushless Servo Drive

The BLD-01, the latest generation of digital brushless drives are one of the most advanced and cost effective high performance drive packages available, providing a state of the art solution for a wide range of motion control applications.

Large power range : 0.1 kW to 5.0 kW in a small package.
High degree of protection : The BLD-01 offers trouble free performance in harsh environments, and can withstand high degree of voltage fluctuations.

Standalone Operation : Being a digital drive, the BLD-01 can also be used as an independent drive unit for position, speed and torque control.

- Wide range of drives from 0.1 kW upto 5.0 kW
- Compact drive unit
- Multimode control ability:
  - Position control. - Velocity control. - Torque control.
- Adaptive control with self tuning
- Easy to install and use
- Input signals : Clock / Direction
- 4 digital inputs (configurable)
- 4 digital outputs
- Safety features : over current, over voltage, over temperature
- Positioning error indication
- Encoder output available for closed loop control from external controller

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