



**ControlEZ Technology Sdn Bhd (515007-U)**

**Machine Vision, Motion, PLC-PC-Based Industry Control Automation.  
Education Control Training Equipment.**

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**PC-Based or PLC-Based 4 Axes Robot Arm Articulated with Gripper  
Model : EZ-RC001**



**System Configuration**

**Items Included :**

1. PC Based Motion PCI Servo Controller Card & terminal block & cable
2. Training Manual & Exercise Manual-1 set
3. SOFTWARE CD PCI Source code on Microsoft VC++ and VB++ -1 set
4. Robotic Control Software Programming
5. Mechanical Structure Modules
6. Physical Structural Modules
7. Proposal would include structural modules using PVC Base. Actuator Modules will be provided; A module for mechanical actuators and the controller, drivers, powersupply and transformer.
8. 1 user exercise & user manual
9. source code examples
10. Mechanical Gripper (Gripper Mechanism)
11. DC Power Supply & Electrical wiring for the system
12. Electrical components ELCB, MCB & OTHER
13. Computer Dell Dimension 3100, Intel Pentium 4 Processor 524 with HT Technology, (1 MB L2 Cache, 3.06GHz, 533 MHz FSB), Genuine Windows XP Home Edition, 256 MB DDR-2 SDRAM, 80GB SATA Hard Drive 3.0Gb with NCQ, 17" Flat Panel Monitor(1 Year Limited Warranty)
14. PC-Based 4 Axes Robot Arm Articulated with Gripper



(to be replaced by Siemens S7 PLC, Original PLC Software, Programming cable)

## Technical Specification Summary

- Servo motor/Stepper motor with gear head
- Servo Motor/Stepper Motor PF566TG20A (5 Phase Motor)
- PF596TG20A
- Six leads for various wiring configurations, Wide selection range to suit various applications, 1.1~66 Kgcm Max. Holding Torque, Highly cost effective
- Table Base 1000mm(L) \* 580mm(W) \*40 mm(H)
- Robot base 300mm(W) \* 300 mm (L) \* 385 mm(H)
- Length arms = 300 mm
- Diameter of rotary plate = 300 mm
- Servo Motor/Stepper Motor Gearhead
- 4 Axes PCI Motion Servo/Stepper Controller Card, 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 MPG2, Standard clock : 3.2768 MHz, Output pulse rate : 0.1 to 1,638,400.0 Hz, Number of pulse set : 0 to 16,777,215 pulses, Applicable motors : stepper motor and/servo motor for positioning, Control System : custom LSI MPG2031 Commands system, Encoder Input : A/B/Z phases
- terminal blocks & interface cable
- Servo Motor/Stepper Motor Driver UPS503-0PN, 5 Phase DC Type Driver Units, A compact package matching most existing motors, 24Vdc Power Supply Input, Opto-isolated inputs and outputs, Auto-current down features, Full Step, Half Step, 1/4 Step, 1/8 Step setting selection
- Servo/Stepper motor Driver - 3 set
- Servo/Stepper Motor - 3 set
- Gear Head - 3 set
- Mechanical Actuator - 3 set
- PVC Based with handle - 1 set
- Power Supply - 1 set
- PC Based Motion PCI Controller Card & terminal block & cable - 1 set

**NOTE:** Complete Technical Specification and detailed additional information available

### Required Services

-Electrical supply: 220-240V/50-60Hz

### Dimension & Weight

-Dimensions approx:  
1000(L)\*580(W)\*700(H)  
-Weight approx:60Kg

\*Specification subject to change without prior notice due to continuous improvements of the product