BASIC COMPUTER INTERFACE CONTROL TRAINER CIC-100

CIC-100 is an educational equipment for computer interface control experiments and to enhance designing capabilities. CIC-100 comes with comprehensive instruction material which explains all relevent informations and experiments in simple, easy to understand terms. Students will be lead step by step through the various experiments into the world of computer interface control technology which could promote designing capabilities in the future.

FEATURES:

- Suit to IBM PC XT/AT or compatible computer
- Be controled by BASIC, ASSEMBLY and C language.
- Input/Output drive, control RELAY, STEP MOTOR, LED, SPEAKER ... etc directly.
- Independent I/O interface circuit could be connected to another system by user.
- Over 800 pin solderless breadboard for external circuit to experimentalize and test.
- User could make choice 6 external module to offer applied electrical equipment testing.
- Comprehensive experiment manual.

EXPERIMENT CONTENTS:

1. System Set up and Functions Test.
2. LED Output Control
3. RELAY Control Relay
4. Switch Input Control
5. Speaker Output Control
6. A/D Converter Control
7. D/A Converter Control
8. V/F Converter Control
9. F/V Converter Control
10. RED/GREEN Traffic Lights Control
11. Stepping Motor Control

SPECIFICATIONS:

1. Connect with IBM PC/XT/AT or other compatibles computer.
2. Analog signals input: input circuit transform Light, Temp, Sound, external .. etc of Test-Measuring instrument.
3. Input/Output drive: control Relay, Step Motor, LED, Speaker.
4. I/O Control: 2 sets of programmable peripheral interface card (8255A)
5. One I/O control IC: 8255A port to be drawn by 2mm testing copper nail, and could be connected to other systems by user.
6. D.C. +5V/2A power supply could be used to test.
7. Material of circuit board: penetrate double size Fiber glass board.
8. Over universal solderless breadboard for external circuit to experimentalize and test.
9. Could be controlled and applied by BASIC, ASSEMBLY and C language.
10. Input power: AC 110V/220V, 60Hz.
11. Dimensions: 325×250×95mm (L×W×H)
12. Weight: 4kg
13. Accessories:
    A. 25P-25P cable, 100cmL.
    B. Demo disk
    C. Fuse
    D. AC cord

IRAQ - BAGHDAD - BAB ALSHARQI - ELECTRONIC CENTER
Tel. : 00964 - 1 - 8172341 Mob. : 00964 - 7906793814 - 7709975934
www.almasafa-iq.com E-Mail:info@almasafa-iq.com - muhamedmu2000@yahoo.com

CIC-100 BASIC COMPUTER INTERFACE CONTROL TRAINER

APPLIED CONTROL MODULE: (OPTION)

Except for these six module as follows, it still include DC power supply and appendix those could be in common use.

(1) CI-13001 STEPPING MOTOR CONTROL MODULE
A. Four phase 2 drive stepping motor.
B. Step Angle: 1.8°/Rotation, 200 step
C. Voltage Rating: 12 VDC
D. Current Rating Phase: 0.44A
E. Holding-Torque: 4.0Kg-cm
F. Detent-Torque: 0.38Kg-cm
G. Module Size: 250 × 150mm ± 5%

(2) CI-13002 KEY-PAD MATRIX AND TRAFFIC LIGHT MODULE
A. 8 LED display, simulates traffic light module.
B. 16 key, 4 × 4 key-pad matrix.
C. Mechanical style KEY-PAD.
D. Module Size: 250 × 150mm ± 5%

(3) CI-13003 ADC MODULE
A. 8 bit ADC
B. Voltage Rating: ± 5V
C. Settling Time: ≤ 200μS
D. Input Voltage Range: 0 ~ + 5V
E. Could connect with CMOS, TTL
F. Module Size: 250 × 150mm ± 5%

(4) CI-13004 DAC MODULE
A. 8 bit DAC
B. Error: ≤ 1%
C. Covert Time: ≤ 150μS
D. Module Size: 250 × 150mm ± 5%

(5) CI-13005 VFC MODULE
A. Input Voltage Range: 0.1V ~ 10V
B. Input Resistance: ≥ 1MΩ
C. Output: Square Wave, 0.1Hz ~ 10KHz
D. Adjustable GAIN, OFFSET
E. Module Size: 250 × 150mm ± 5%

(6) CI-13006 FVC MODULE
A. Input Frequency: 0 ~ 4.3KHz
B. Input Wave: ± 0.2 ~ ± 5V, Symmetrical Wave.
C. Output Voltage: 0 ~ 4.3V
D. Analysis: 0.1mV
E. Adjustable GAIN, OFFSET
F. Module Size: 250 × 150mm ± 5%

(7) CI-18001 POWER MODULE
A. + 5V DC ± 4% @ 500mA.
B. − 5V DC ± 4% @ 200mA.
C. ± 12VDC ± 4% @ 200mA.
D. Power Consumption: 16W Maximum.
E. Dimension: 130mm × 92mm × 69mm. (W × L × H)

(8) ACCESSORIES (CI-18003)
A. Connect Leads: 2mm-2mm, 450mmL, 20pcs
B. CIC-100 Experiment Manual
C. CIC-100 Module's Software