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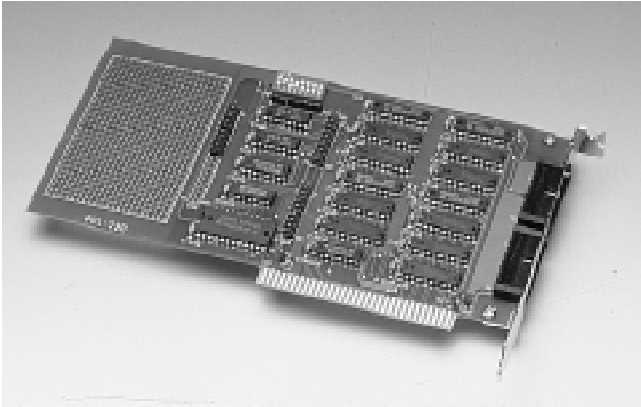
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Features

- 32 TTL-level digital input channels
- 32 TTL-level digital output channels
- High output driving capacity
- Low input loading
- Three programmable counter/timer channels
- User configurable clock source
- Breadboard area for custom circuits

Introduction

The PCL-720 digital I/O and counter card is a PC-compatible add-on card with 32 digital input channels, 32 digital output channels and three programmable counter/timer channels.

Its digital I/O channels are TTL-compatible and use 74LS244 driver/buffer circuits to provide high output driving capacity. These buffered circuits also require lower input loading current than regular TTL circuits.

The PCL-720's 8254 programmable counter/timer provides three flexible 16-bit counter/timer channels. You can generate waves and pulses by programming the 8254. Jumper settings determine the clock crystal frequency. The PCL-720 also includes a breadboard area perfect for customized circuits.

Applications

Digital Input

- Contact-closure monitoring
- Switch-panel status sensor
- BCD interface receiver
- Digital signal interface

Digital Output

- Industrial On/Off controller
- Digital signal interface
- BCD interface driver

Counter/Timer

- Period and pulse-width measurement
- Event and frequency counting
- Waveform and pulse generation

Specifications

Digital Input

- **Input lines:** 32
- **Logic level 0:** 0.8 V max.
- **Logic level 1:** 2.0 V min.

Digital Output

- **Output lines:** 32

- **Logic level 0:** 0.5 V max. @ 24 mA (sink)
- **Logic level 1:** 2.0 V min. @ 15 mA (source)

Programmable Counter/Timer

- **Frequency range:** 0 ~ 2.6 MHz
- **Counters:** 3 independent 16-bit counters
- **Modes:** Six programmable modes
- **Usable pins:** CLOCK and GATE for each channel

Clock Source

- **Clock frequency:** 2 MHz, 1 MHz, 500 kHz or 250 kHz; jumper selectable
- **Frequency divider:** Divided by 1, 10, 100 or user adjustable

General

- **I/O port address:** Eight consecutive bytes from hex 200 ~ 3F8
- **Breadboard area:** 651 (31 x 21) plated-through "donuts", each with a .036" hole on 0.10" centers
- **Power consumption:** +5 V @ 500 mA typical
- **Operating temperature:** 0 ~ +60° C (32 ~ 140° F)
- **Storage temperature:** -20 ~ +70° C (-4 ~ 158° F)
- **Operating humidity:** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **Connectors:** Five 20-pin male ribbon-cable connectors.
- **Dimensions:** 205 mm (L) x 100 mm (H) (8" x 3.9")

Ordering Information

- **PCL-720:** Digital I/O and counter card, user's manual
- **PCL-10120-1:** 20-pin flat cable, 1 m
- **PCL-10120-2:** 20-pin flat cable, 2 m
- **PCLD-780:** Screw terminal board
- **PCLD-782B:** 24/16 Channel opto-isolated D/I board
- **PCLD-785B:** 24/16 Channel relay output board
- **PCLD-786:** SSR and relay driver board
- **PCLD-885:** 16-Channel power relay (form A) output board
- **PCLS-OCX:** ActiveX Control for data acquisition and control
- **ADAM-3920:** 20-pin flat cable wiring terminal for DIN-rail mounting



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