

Features

- · 144 digital I/O lines
- · Emulates 8255 PPI mode 0
- · Buffered circuits for higher driving capacity than the 8255
- · Interrupt handling
- · Output status readback
- Pin compatible with Opto-22 I/O module racks

Introduction

The PCL-722 is a full-size PC add-on card that offers 144 programmable digital I/O lines divided into six main ports. Each port emulates the operation of an 8255 Programmable Peripheral Interface (PPI) in mode 0 but provides higher driving capacity than the 8255. Each port in turn consists of three subsidiary 8-bit ports (A, B, C). You can individually configure each of these 8-bit ports by software for input or output.

The PCL-722 provides an additional readback function which lets you monitor the digital output status by taking readings directly from the output port.

Applications

High-density mixed digital I/O

Digital I/O control

Industrial monitoring and control

Interfacing with parallel I/O devices

Direct interfacing with Opto-22 compatible I/O module racks

Specifications

• I/O lines: 144 (24 bits x 6 ports)

• Programming mode: 8255 PPI mode 0

 Interrupts: Bits 0 and 3 of Port C can generate an interrupt to IRQ 2, 3, 4, 5, 6 or 7

Digital output

Port A and Port B

Logic 0: 0.4 V max. @ 12 mA (sink) Logic 1: 2.4 V min. @ 8.0 mA (source)

Port C

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

Digital input

Port A and Port B

Logic Level 0: 0.8 V max. Logic Level 1: 2.0 V min.

Port C

Logic Level 0: 0.8 V max. Logic Level 1: 2.0 V min.

General

Power consumption: +5 V @ 1.3 A typical
+5 V @ 1.8 A max.

• Operating temperature: $0 \sim +60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$

• Storage temperature: $-20 \sim +70^{\circ}$ C (-4 $\sim 158^{\circ}$ F)

Operating humidity: 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

· Connectors:

Six 50-pin male ribbon-cable connectors. Pin assignments are fully compatible with Opto-22 I/O module racks

• Dimensions: 334 mm (L) x 100 mm (H) (13.2" x 3.9")

Ordering Information

PCL-722: 144-bit digital I/O card, utility disk and user's manual

PCL-10150-1.2: 50-pin flat cable, 1.2 m

PCLD-7216: 16-channel carrier board for SSR I/O modules PCLD-782B: 24/16-channel opto-isolated digital input board

PCLD-785B: 24/16-channel relay output board

PCLD-885: 16-channel power relay (form A) output board PCLS-OCX: ActiveX Control for data acquisition and control. ADAM-3950: 50-pin flat cable wiring terminal for DIN-rail

mounting

DA&C Series