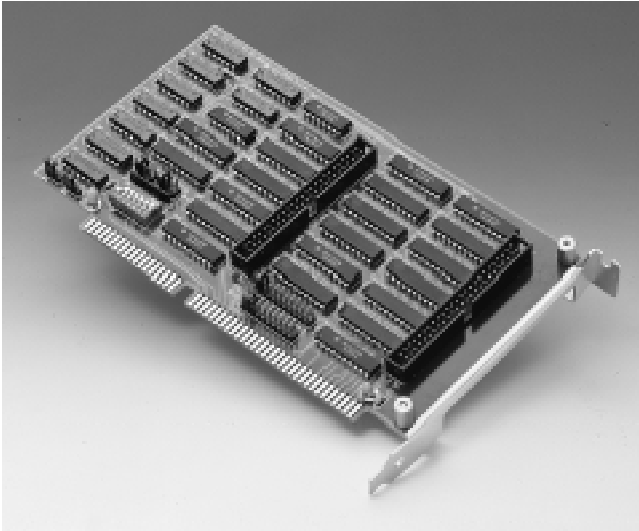


PCL-731

48-bit Digital I/O Card



Features

- 48 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-731 offers 48 programmable digital I/O lines. Each port emulates the operation of an 8255 Programmable Peripheral Interface (PPI) chip in mode 0, but provides a higher driving capacity than the 8255.

The card's DIO ports are combined into 8-bit ports, six for the PCL-731. You can configure each port individually by software for either input or output. The card can directly interface with SSR module carrier boards through a 50-pin Opto-22 compatible connector.

The PCL-731 is a low-cost alternative of the PCL-722. Like the PCL-722 it provides a readback feature which lets you monitor the status of the output by reading back the output port directly.

Applications

- Digital I/O control
- Industrial monitoring and control
- Interfacing with parallel I/O devices
- Interfacing with Opto-22 compatible I/O module racks

Specifications

- **I/O lines:** 48
- **Programming mode:** 8255 PPI mode 0
- **Interrupt:** Bit 0 of one port can generate an interrupt to IRQ 2-15
- **Interrupt triggering:** Rising or falling edge triggering, jumper-selectable
- **Digital output:** Logic 0: 0.4 V max. @ 24 mA (sink)
Logic 1: 2.4 V min. @ 15 mA (source)
- **Digital input:** Logic 0: 0.4 V max.
Logic 1: 2.4 V min.

General

- **Power consumption:** +5 V @ 0.5 A typical
+5 V @ 0.8 A max.
- **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:** 2x50-pin male ribbon-cable connectors
- **Dimensions:** 185 mm (L) x 100 mm (H) (7.3" x 3.9")

Pin Assignments

PC7	1	2	GND
PC6	3	4	GND
PC5	5	6	GND
PC4	7	8	GND
PC3	9	10	GND
PC2	11	12	GND
PC1	13	14	GND
PC0	15	16	GND
PB7	17	18	GND
PB6	19	20	GND
PB5	21	22	GND
PB4	23	24	GND
PB3	25	26	GND
PB2	27	28	GND
PB1	29	30	GND
PB0	31	32	GND
PA7	33	34	GND
PA6	35	36	GND
PA5	37	38	GND
PA4	39	40	GND
PA3	41	42	GND
PA2	43	44	GND
PA1	45	46	GND
PA0	47	48	GND
	49	50	GND

Ordering Information

- PCL-731: 48-bit digital I/O card and manual
- PCL-10150-1.2: 50-pin flat cable, 1.2 m
- PCLD-782B: 24/16-ch. opto-isolated digital input board
- PCLD-785B: 24/16-ch. relay output board
- PCLD-7216: 16-ch. carrier board for SSR I/O modules
- PCLD-885: 16-ch. 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