PCL-711S

Analog and Digital I/O Card

Introduction

The PCL-711S is a fully-integrated package that offers four of the most popular I/O functions for the PC/AT and compatible systems: A/D conversion, D/A conversion, digital input and digital output.

The inexpensive PCL-711S is ideal for entry level applications. The features of this half-sized card include: eight 12-bit analog inputs, one 12-bit analog output, 16 digital inputs and 16 digital outputs. In addition, it comes with a 20-point screw-terminal board and a flat cable connector.

The PCL-711S performs a variety of I/O jobs, and features solid software support and a large selection of available daughterboards and accessories. It is an ideal and affordable performer for OEMs, schools and hobbyists who require a combination of analog and digital I/O.

Features

- Eight single-ended analog inputs
- Programmable A/D input range
- A/D, D/A with pacer
- One analog output
- 12-bit A/D and D/A resolution
- 16 digital outputs
- 16 digital inputs
- Includes versatile drivers in popular programming languages plus calibration, demo and example programs
- Screw-terminal board and cable included

Applications

- DC voltage measurement
- Transducer/sensor interfacing
- Process control
- Programmable voltage output
- Contact closure monitoring
- Digital signal and BCD interfacing
- Industrial On/Off control
- Multiplexer and relay control

Specifications

Analog Input

- **Channels**: 8 single-ended
- **A/D converter**: 12 bit, 25 μsec. conversion time
- **Input range (V)**: ±5, ±2.5, ±1.25, ±0.625, ±0.3125
- **Trigger mode**: Software, pacer or external trigger
- **Data transfer**: Program control, interrupt (IRQs 2 ~ 7)
- **Accuracy**: 0.01% of reading ±1 bit
- **Common mode rejection**: 60 dB typical
- **Input impedance**: >10 MΩ
- **Input overvoltage**: ±30 V_{DC} max.

Analog Output

- **Channel**: One 12-bit double-buffered channel
- **D/A range**: 0 ~ 5 V or 0 ~ 10 V
- **Settling time**: 30 μsec.

Digital Input

- **Channels**: 16, TTL level

Digital Output

- **Channels**: 16
- **Logic level 0**: 0.5 V max. @ 8 mA (sink)
- **Logic level 1**: 2.4 V min. @ 0.4 mA (source)

General

- **Dimensions**: 155 x 100 mm (6.1" x 3.9")

Ordering Information

- ❑ **PCL-711S**: PCL-711B card, user's manual, utility diskette with language drivers, PCLD-7115 and 1-m 20-pin flat cable
- ❑ **PCL-711B**: PCL-711B card only (PCLD-7115, 1-m 20-pin cable, user's manual and utility diskette NOT included).
- ❑ **PCLS-OCX**: ActiveX Control for data acquisition and control