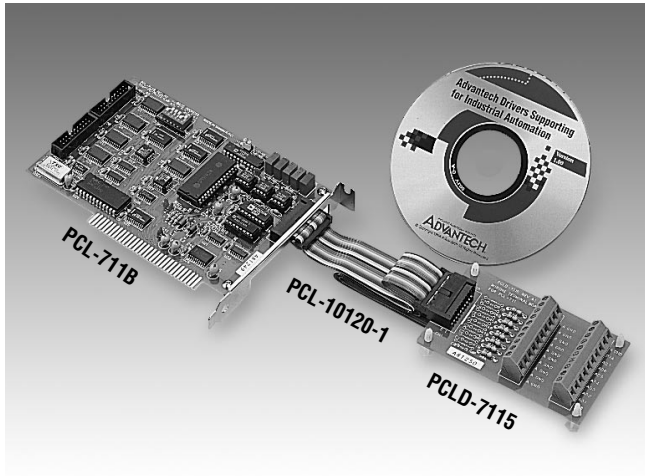


# PCL-711B/S

## Analog and Digital I/O Card



### 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 inputs
- 16 digital outputs
- Includes versatile drivers in popular programming languages plus calibration, demo and example programs
- Screw-terminal board and cable included

### Introduction

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

The inexpensive PCL-711B/S 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-711B/S 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.

### Specifications

#### Analog Input

- **Channels** 8 single-ended
- **A/D Converter** 12 bit, 25  $\mu$ s conversion time
- **Input Range (V)**  $\pm 5$ ,  $\pm 2.5$ ,  $\pm 1.25$ ,  $\pm 0.625$ ,  $\pm 0.3125$
- **Trigger Mode** software, pacer or external trigger
- **Data Transfer** program control, interrupt (IRQs 2 ~ 7)
- **Accuracy**  $\pm 2$  LSB
- **Common Mode Rejection** 60 dB typical
- **Input Impedance**  $> 10$  M $\Omega$
- **Input Overvoltage**  $\pm 30$  V<sub>DC</sub> max.

#### Analog Output

- **Channel** one 12-bit double-buffered channel
- **D/A Range** 0 ~ 5 V or 0 ~ -10 V
- **Settling Time** 30  $\mu$ sec.

#### Digital Input

- **Channel** 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

- **Power Consumption** +5 V @ 500 mA typical, 1.0 A max.  
+12 V @ 50 mA typical, 100 mA max.  
-12 V @ 14 mA typical, 20 mA max.

- **Operating Temperature** 0° ~ 50° C (32° ~ 122° F)
- **Storage Temperature** -20° ~ 65° C (-4° ~ 149° F)
- **Operating Humidity** 5% ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **I/O Ports** 16 consecutive I/O ports per card
- **Connector** one 20-pin flat cable connector for A/D and D/A  
one 20-pin flat cable connector for digital input  
one 20-pin flat cable connector for digital output
- **Dimensions** 155 mm (L) x 100 mm (H) (6.1" x 3.9")

### Ordering Information

- **PCL-711S** PCL-711B card, user's manual, driver CD-ROM, PCLD-7115 and 1 m 20-pin flat cable (PCL-10120-1)
- **PCL-711B** PCL-711B card only (PCLD-7115, 1 m 20-pin cable, user's manual and driver CD-ROM NOT included).
- **PCL-10120-1** 20-pin flat cable, 1 m
- **PCL-10120-2** 20-pin flat cable, 2 m

### Applications

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