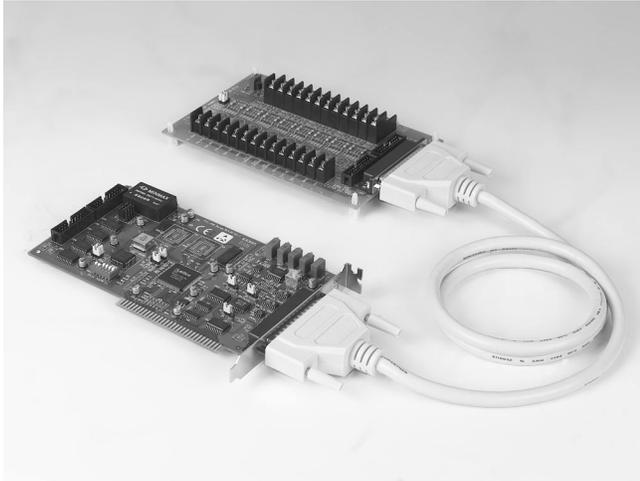


# PCL-818L/LS/H

## PCL-818L/LS 40 KHz Multifunction Card PCL-818H General-purpose Multifunction Card



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### PCL-818L/LS 40 KHz Multifunction Card

The PCL-818L is the entry-level model in the PCL-818 series. We designed it with the cost-sensitive customer in mind. It offers the same functions as the rest of the series, except that it has a 40 kHz sampling rate and only accepts bipolar inputs. It is fully software and connector compatible with the PCL-818HD and PCL-818HG. This lets you upgrade your applications to these higher performance cards without hardware or software changes.

#### The PCL-818LS Bundle

The PCL-818LS bundle consists of the PCL-818L card, the PCLD-8115 wiring terminal board and a DB-37 cable assembly. The PCLD-8115 accommodates on-board passive signal conditioning components (resistors and capacitors), allowing you to easily implement a low-pass filter, a voltage attenuator or a 4 ~ 20 mA voltage converter.

### Specifications

#### Analog Input

- **Conversion Time** 25  $\mu$ sec.
- **Input Range (V)** bipolar:  $\pm 10, \pm 5, \pm 2.5, \pm 1.25, \pm 0.625$
- **Maximum Sampling Rate** 40 KS/s for all input ranges
- **Accuracy**

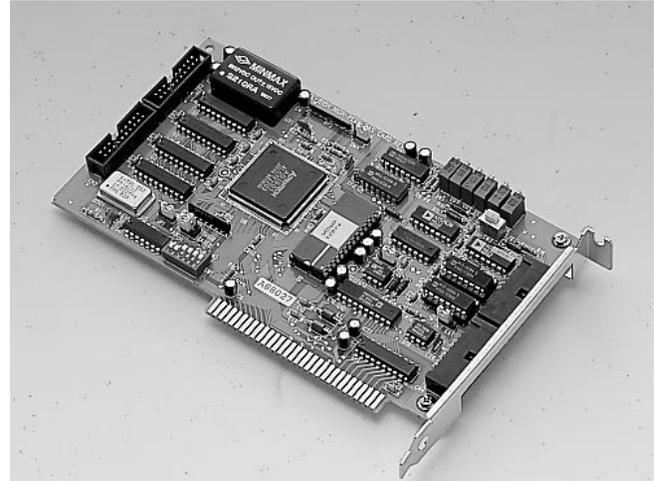
Gain = 0.5, 1	0.01% of FSR $\pm 1$ LSB
Gain = 2, 4	0.02% of FSR $\pm 1$ LSB
Gain = 8	0.04% of FSR $\pm 1$ LSB

#### General

- **Power Consumption** +5 V @ 210 mA typical, 500 mA max.  
+12 V @ 20 mA typical, 100 mA max.  
-12 V @ 20 mA typical, 40 mA max.
- **I/O Ports** 16 consecutive bytes
- **A/D, D/A Connector** DB-37
- **Dimensions (L x H)** 155 x 100 mm (6.1" x 3.9")

### Ordering Information

- **PCL-818L** Low-cost high-performance half-size multi-function card, user's manual and driver CD-ROM. (cable not included)
- **PCL-818LS** PCL-818L with PCLD-8115 and DB-37 cable assembly (PCL-10137)
- **PCL-10137-1** DB-37 cable assembly, 1M
- **PCL-10137-2** DB-37 cable assembly, 2M
- **PCL-10137-3** DB-37 cable assembly, 3M



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### PCL-818H General-purpose Multifunction Card with 20-pin Connectors

The PCL-818H is a 100 KHz Multifunction card with standard PCL-818 series features. It attaches directly to signal-conditioning boards with 20-pin flat cable connectors. The PCL-818H is a half-size card that uses the Advantech ASIC chip.

### Specifications

#### Analog Input

- **Conversion Time** 8  $\mu$ sec.
- **Input Range (V)** Bipolar:  $\pm 10, \pm 5, \pm 2.5, \pm 1.25, \pm 0.625$   
Unipolar: 0 ~ 10, 0 ~ 5, 0 ~ 2.5, 0 ~ 1.25
- **Maximum Sampling Rate** 100 KHz
- **Accuracy**

Gain = 0.5, 1	0.01% of FSR $\pm 1$ LSB
Gain = 2, 4	0.02% of FSR $\pm 1$ LSB
Gain = 8	0.04% of FSR $\pm 1$ LSB

#### General

- **Power Consumption** +5 V @ 180 mA typical, 500 mA max.  
+12 V @ 140 mA typical, 200 mA max.
- **I/O Ports** 16 consecutive bytes
- **A/D, D/A Connector** 20-pin flat cable
- **Dimensions** 185 mm (L) x 100 mm (H) (7.3" x 3.9")

### Ordering Information

- **PCL-818H** High-performance half-size multifunction card with 20-pin flat cable connectors, user's manual and driver CD-ROM. (cable not included)
- **PCL-10120-1** 20-pin flat cable, 1M
- **PCL-10120-2** 20-pin flat cable, 2M