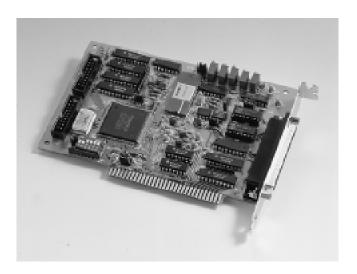
PCL-818L/H

PCL-818L 40 kHz DAS Card PCL-818H General-purpose DA&C Card



PCL-818L 40-kHz DAS 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 \sim 20 mA voltage converter.

Specifications

Analog Input

• Conversion time: 25 µsec.

Input range (V): Bipolar: ±10, ±5, ±2.5, ±1.25, ±0.625
 Maximum data throughput: 40 kHz for all input ranges

Accuracy:

Gain = 0.5, 1 0.01% of FSR ±1 LSB Gain = 2, 4 0.02% of FSR ±1 LSB Gain = 8 0.04% of FSR ±1 LSB

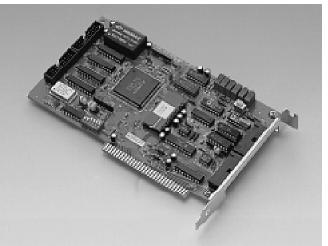
General

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 bytesA/D, D/A connector: DB-37

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



PCL-818H General-purpose DA&C Card with 20-pin Connectors

The PCL-818H is a 100 kHz DAS 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 µsec.

· Input range (V):

Bipolar: ± 10 , ± 5 , ± 2.5 , ± 1.25 , ± 0.625 Unipolar: $0 \sim 10$, $0 \sim 5$, $0 \sim 2.5$, $0 \sim 1.25$

Maximum data throughput: 100 kHz

Accuracy:

Gain = 0.5, 1 0.01% of FSR ±1 LSB Gain = 2, 4 0.02% of FSR ±1 LSB Gain = 8 0.04% of FSR ±1 LSB

General

• Power Consumption: +5 V @ 180 mA typical, 500 mA max.

+12 V @ 140 mA typical, 200 mA max. -12 V @ 14 mA typical, 20 mA max.

I/O ports: 16 consecutive bytes
A/D, D/A connector: 20-pin flat cable

• **Dimensions**: 185 x 100 mm (7.3" x 3.9")