PCI-1718HDU

100 kS/s, 12-bit, 16-ch Universal PCI Multifunction Card

Features
- ISA-Compatible with PCL-818HD
- 16-ch single-ended or 8-ch differential analog input
- 12-bit A/D converter, with up to 100 kHz sampling rate
- Programmable gain
- Automatic channel/gain scanning
- Onboard FIFO memory (1,024 samples)
- One 12-bit analog output channel
- 16-ch digital input and 16-ch digital output
- Universal PCI bus (support 3.3 V or 5 V PCI bus signal)
- BoardID™ switch

Specifications

Analog Input
- Channels: 16 single-ended/8 differential (software programmable)
- Resolution: 12 bits
- Max. Sampling Rate: 100 kS/s
- FIFO Size: 1,024 samples
- Overvoltage Protection: 30 Vp-p
- Input Impedance: 100 MΩ
- Sampling Modes: Software, onboard or external programmable pacer
- Input Range:
  - Unipolar: 0 ~ 10, 0 ~ 5, 0 ~ 2.5, 0 ~ 1.25
  - Bipolar: ±10, ±5, ±2.5, ±1.25, ±0.625

  Accuracy (% of FSR ±1 LSB):
  - Unipolar: 0.1, 0.1, 0.2, 0.2, 0.4

Analog Output
- Channels: 1
- Resolution: 12 bits
- Output Rate: Static update
- Output Range: (V, software programmable)
- Slew Rate: 10 V/µs
- Driving Capability: 10 mA
- Output Impedance: 0.1 W max.
- Operation Mode: Software polling
- Accuracy: INLE: ±1 LSB

Digital Input
- Channels: 16
- Compatibility: 5 V/TTL
- Input Voltage: Logic 0: 0.8 V max., Logic 1: 2 V min.

Counter/Timer
- Channels: 1
- Resolution: 16 bits
- Compatibility: 5 V/TTL
- Max. Input Frequency: 10 MHz
- Reference Clock: Internal: 10 MHz
  - External Clock Frequency: 10 MHz

General
- Bus Type: Universal PCI V2.2
- I/O Connector: 1 x DB37 female connector
  - 2 x 20-pin box header
- Dimensions (L x H): 175 x 100 mm (6.9" x 3.9")
- Power Consumption:
  - Typical: 5 V @ 850 mA
  - Max.: 5 V @ 1 A
- Operating Temperature: 0 ~ 60 °C (32 ~ 140 °F)
- Storage Temperature: -20 ~ 70 °C (-4 ~ 158 °F)
- Operating Humidity: 5 ~ 85% RH non-condensing (refer to IEC 68-1, -2, -3)
- Storage Humidity: 5 ~ 95% RH non-condensing (refer to IEC 68-1, -2, -3)

Ordering Information
- PCI-1718HDU: 100 kS/s, 12-bit, 16-ch Universal PCI Multi. Card

Accessories
- PCL-10120-1: 20-pin Flat Cable, 1 m
- PCL-10120-2: 20-pin Flat Cable, 2 m
- PCL-10137-1: DB37 Cable, 1 m
- PCL-10137-2: DB37 Cable, 2 m
- PCL-10137-3: DB37 Cable, 3 m
- ADAM-3920: 20-Pin Flat Cable Terminal, DIN-rail Mount
- ADAM-3937: DB37 DIN-rail Wiring Board