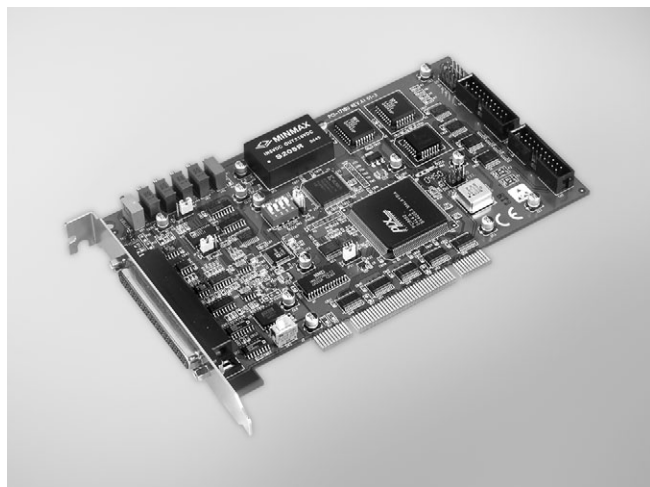


PCI-1718HDU

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



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 M Ω
- Sampling Modes Software, onboard or external programmable pacer
- Input Range

PCI-1718HDU	Unipolar	N/A	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
	Bipolar	± 10	± 5	± 2.5	± 1.25	± 0.625
	Accuracy (% of FSR ± 1 LSB)	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)

Internal Reference	Unipolar	0 ~ 5, 0 ~ 10
External Reference		0 ~ x V @ x V (-10 $\leq$ x $\leq$ 10)

- Slew Rate 10 V/ μ s
- 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.

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

Digital Output

- Channels 16
- Compatibility 5 V/TTL
- Output Voltage Logic 0: 0.8 V max.
Logic 1: 2.0 V min.
- Output Capability Sink: 8.0 mA @ 0.8 V
Source: -0.4 mA @ 2.0 V

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 Univ. 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

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