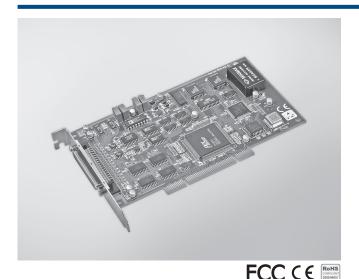
PCI-1711U/UL 100 kS/s, 12-bit, 16-ch Universal PCI Multifunction DAQ Card



Features

- 16-ch single-ended 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)
- Two 12-bit analog output channels (PCI-1711U only)
- 16-ch digital input and 16-ch digital output
- Onboard programmable counter

Specifications

Analog Input

Channels 16 single-ended Resolution 12 bits Max. Sampling Rate 100 kS/s

Note: The sampling rate for each channels will be affected by used channel number. For example, if 4 channels are used, the sampling rate is 100k/4 = 25 kS/s per

 FIFO Size 1,024 samples • Overvoltage Protection 30 Vp-p Input Impedance $2 M\Omega/5 pF$

 Sampling Modes Software, onboard programmable pacer, or external

Input Range (V, software programmable) & Absolute Accuracy

Bipolar	± 10	± 5	± 2.5	± 1.25	± 0.625
Absolute Accuracy (% of FSR)*	0.1	0.1	0.2	0.2	0.4

^{* ±1} LSB is added as the derivative for absolute accuracy

Analog Output (PCI-1711U only)

Channels Resolution 12 bits Output Rate Static update

(Software programmable) **Output Range**

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

Slew Rate 11 V/µs Driving Capability 3 mA Output Impedance $0.81~\Omega$ Operation Mode Static update Accuracy INLE: +0.5 LSB DNLE: ±0.5 LSB

Digital Input

Channels 16 Compatibility 5 V/TTL Logic 0: 0.8 V max. Input Voltage Logic 1: 2.0 V min.

Digital Output

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

Pacer/Counter

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

General

Bus Type Universal PCI V2.2

I/O Connector 1 x 68-pin SCSI female connector Dimensions (L x H) 175 x 100 mm (6.9" x 3.9")

Power Consumption

PCI-1711UL

Typical: 5 V @ 850 mA PCI-1711U

Max.: 5 V @ 1.0 A Typical: 5 V @ 700 mA Max.: 5 V @ 1.0 A

■ Operating Temperature 0 ~ 60°C (32 ~ 140°F) Storage Temperature -20 ~ 70°C (-4 ~ 158°F) Storage Humidity 5 ~ 95% RH non-condensing

Ordering Information

 PCI-1711U Entry-level 100 kS/s, 12-bit Multifunction Card PCI-1711UL Entry-level 100 kS/s, 12-bit Multi. Card w/o AO

Accessories

PCLD-8710 DIN-rail Wiring Board w/ CJC PCL-10168-1E 68-pin SCSI Shielded Cable, 1 m PCL-10168-2E 68-pin SCSI Shielded Cable, 2 m ADAM-3968 68-pin DIN-rail SCSI Wiring Board