PCI-1721

12-bit, 4-ch Analog Output PCI Card with 16-ch Digital I/O



Features

- 10 MHz maximum digital update rate
- Auto calibration function
- Four analog output channels with 1,024 samples FIFO buffer •
- A 12-bit DAC is equipped for each of analog output channels
- Real-time waveform output function with internal/external pacer
- Synchronized output function
- Flexible output types and range settings
- Keeps the output settings and values after system hot reset •
- 16-ch DI/O and one 10 MHz 16-bit resolution counter .
- BoardID[™] switch •

Introduction

PCI-1721 is an advanced high-speed analog output card for the PCI bus, and each of analog output channels are equipped with a 12-bit, double-buffered DAC. It features many powerful and unique functions, like a waveform output function with 10 MHz maximum update rate, auto-calibration and a BoardID switch. PCI-1721 is an ideal solution for industrial applications where high-speed continuous analog output or real-time waveform output functions are required.

Specifications

Analog Output

- Channels
- Resolution
- FIFO Size
- 1,024 samples Output Rate 10 MHz or static update
- Reference Clock

Δ

12 bits

10 V/µs

10 mA

Relative: ±1 LSB

- Internal: 10 MHz External Clock Frequency: 10 MHz max.
 - External Voltage Range: 0.8 V max., 2 V min.

Differential Non-linearity: ±1 LSB (monotonic)

Output Range

Internal Reference	Unipolar	0 ~ 5 V, 0 ~ 10 V,
	Bipolar	±5 V, ±10 V
	Current Loop	0 ~ 20 mA, 4 ~ 20 mA
		(software programmable)
External Reference		$0 \sim +x \lor @ +x \lor (-10 \le x \le 10)$
		$-x \sim +x \lor @ +x \lor (-10 \le x \le 10)$

Slew Rate

- Driving Capability
- Output Impedance 0.1 Ω max. Single/continuous/waveform/synchronized output
- Operation Modes
- Accuracy

Digital Input/Output

- Channels
- Compatibility
- Input Voltage
- Output Capability

16 (shared by input/output) 5 V/TTL Logic 0: 0.8 V max. Logic 1: 2.0 V min. Sink: 0.5 V @ 24 mA

Source: 2.0 V @ -15 mA

Counter/Timer

- Channels
- Resolution
- Compatibility
- Max. Input Frequency
- **Reference Clock**

Internal: 10 MHz External Clock Frequency: 10 MHz max. External Voltage Range: 0.8 V max, 2.0 V min.

General

- Bus Type I/O Connectors
- Dimensions (L x H)
- **Power Consumption**

- Storage Temperature
 - 5 ~ 95% RH, non-condensing

Ordering Information

- Accessories
- PCL-10168-1E

PCL-10168-2E	
--------------	--

- ADAM-3968
- 68-pin SCSI Shielded Cable, 2 m 68-pin DIN-rail SCSI Wiring Board

68-pin SCSI Shielded Cable, 1 m

12-bit, 4-ch Advanced PCI Analog Output Card

All product specifications are subject to change without notice

- PCI V2.2 1 x 68-pin SCSI female connector 175 x 100 mm (6.9" x 3.9") Typical: 5 V @ 850 mA, 12 V @ 600 mA Max.: 5 V @ 1 A, 12 V @ 700 mA

- Storage Humidity

1

16 bits

5 V/TTL

10 MHz

- -20~85°C (-4~185°F)
- PCI-1721
- - Operating Temperature 0 ~ 60°C (32 ~ 140°F)