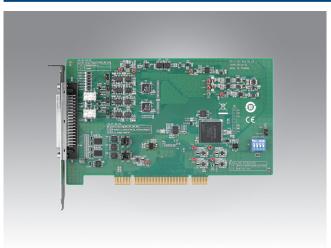
PCI-1721

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 8,192 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 32-bit resolution counter
- BoardID™ switch

CEFCC ROHS

Introduction

PCI-1721 is an advanced high-speed analog output card for the PCI bus, and each of analog output channe's are any pped 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-cal'by tion 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 require.

Specifications

Analog Output

Channels 4
 Resolution 12 bits
 FIFO Size 8,192 samples
 Output Rate 10 MHz or static update
 Reference Clock Internal: 10 MHz

External Clock Frequency: 10 Min mux.
External Voltage Range: 18 V max., 2 V min.

Output Range

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

Slew Rate 20 V/µs
 Driving Capability 20 mA
 Output Impedance 0.1 Ω max.

Operation Modes Single/continuous/waveform/synchronized output

Accuracy
 Relative: ±1 LSB

Differential Non-linearity: ±1 LSB (monotonic)

Digital Input/Output

Channels
 16 (shared by input/output)

Compatibility 5 V/TTL

 Input Voltage Logic 0: 0.4 V max. Logic 1: 4.0 V min.
 Output Capability Sink: 0.4 V @ 2 mA

Source: One Channel: 4.0V @ 8mA max. Per port summed: 4.0V @ 20mA max. Counter/Timer

Channels 1

 Resolution 32 bits

 Compatibility 5 V/TTL
 Max. Input Frequency 10 MHz
 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** PCI V2.2

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

Power Consumption Typical: 5 V @ 250 mA, 12 V @ 150 mA
 Max.: 5 V @ 400 A, 12 V @ 400 mA

Operating Temperature
 Storage Temperature
 Storage Humidity
 O ~ 60°C (32 ~ 140°F)
 -20 ~ 85°C (-4 ~ 185°F)
 Storage Humidity
 5 ~ 95% RH, non-condensing

Ordering Information

PCI-1721-BE
 12-bit, 4-ch Advanced PCI Analog Output Card

Accessories

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