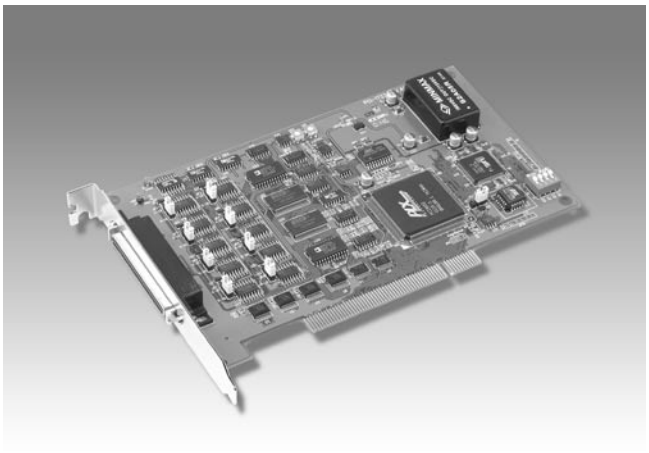
PCI-1723

16-bit, 8-ch Non-isolated Analog Output Card



Features

- Auto calibration function
- A 16-bit DAC is equipped for each analog output channel
- Synchronized output function
- Output values retained after system hot reset
- 2-port (16-channel) user-defined digital input/output
- BoardID™ switch

CE

Introduction

The PCI-1723 is a non-isolated multiple channel analog output card for the PCI bus, and each analog output channel is equipped with a 16-bit, double-buffered DAC. It also features an auto-calibration function and a BoardID™ switch.. The PCI-1723 is an ideal solution for industrial applications where multiple analog output channels are required.

Specifications

Analog Output

- **Output Channels** 8
- **Resolution** 16-bit
- **Operation Mode** Single output, Synchronized output
- **Output Range** -10 ~ +10 V, 0 ~ 20 mA, 4 ~ 20 mA (Internal Reference only)
- **Accuracy** Relative ±6 LSB; Differential Non-linearity ±6 LSB (monotonic)
- **Offset** < 6 LSB
- **Output Impedance** 0.1 Ω max.
- **Throughput** PC dependent, Software update (direct AO)
- **Settling time** 50 µs (to ±6 LSB of FSR)

Digital Input/Output

- **Channels** 16 (bi-directional)
- **Number of Ports** 2
- **Input Voltage** Low 0.8 V max.; High 2.0 V min.
- **Output Voltage** Low 0.5 V max. @ 24 mA (sink); High 2.4 V min. @ -15 mA (source)

General

- **I/O Connector Type** 68-pin SCSI-II female
- **Dimensions** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical +5 V @ 850 mA, +12 V @ 600 mA; Max. +5 V @ 1 A, +12 V @ 700 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 158° F) (IEC 68-2-1,2)
- **Storage Temperature** -20 ~ 85° C (-4 ~ 185° F)
- **Relative Humidity** 5 ~ 95 % RH non-condensing (IEC 68-2-3)
- **Certifications** CE

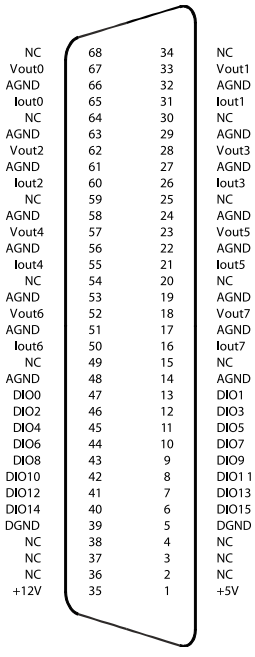
Ordering Information

- **PCI-1723** 16-bit, 8-ch Non-isolated Analog Output Card
- **PCL-10168** 68-pin SCSI-II cable with male connectors on both ends and special shielding for noise reduction, 1 and 2m
- **ADAM-3968** 68-pin SCSI-II Wiring Terminal Board for DIN-rail mounting

Applications

- Process control, Programmable voltage source, Programmable current sink, Servo control, Multiple loop PID control, V-command motion control

Pin Assignments



NC	68	34	NC
Vout0	67	33	Vout1
AGND	66	32	AGND
Iout0	65	31	Iout1
NC	64	30	NC
AGND	63	29	AGND
Vout2	62	28	Vout3
AGND	61	27	AGND
Iout2	60	26	Iout3
NC	59	25	NC
AGND	58	24	AGND
Vout4	57	23	Vout5
AGND	56	22	AGND
Iout4	55	21	Iout5
NC	54	20	NC
AGND	53	19	AGND
Vout6	52	18	Vout7
AGND	51	17	AGND
Iout6	50	16	Iout7
NC	49	15	NC
AGND	48	14	AGND
DIO0	47	13	DIO1
DIO2	46	12	DIO3
DIO4	45	11	DIO5
DIO6	44	10	DIO7
DIO8	43	9	DIO9
DIO10	42	8	DIO11
DIO12	41	7	DIO13
DIO14	40	6	DIO15
DGND	39	5	DGND
NC	38	4	NC
NC	37	3	NC
NC	36	2	NC
+12V	35	1	+5V

Last updated : January 2005