PCI-1243U

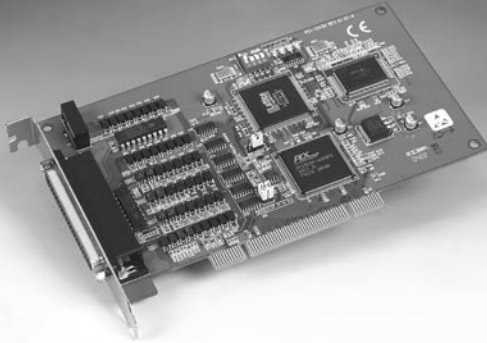## 4-Axis Low Cost Stepping Motor Control Card

NEW

Features

- 4 axis stepping motor control
- PCI universal bus
- Up to 400 k pulse output rate
- T-curve acc/dec
- Pulse/Dir and CW/CCW pulse output mode
- Up 24-bit step count
- Opto-Isolated Digital input and output
- Up to 1500 Vrms system isolation

Introduction

PCI-1243U is a 4-axis intelligent stepping motor control card with PCI interface. The card's PCD-4541 motion controller can execute a variety of motion-control commands. For advanced applications, we supply a DLL so that programs can be created for the Microsoft® Windows® environment.

PCI-1243U is a cost-effective solution for PCI based motion control. Each axis can be controlled directly through the card's I/O registers. However, use of the card's high-level DLL driver is recommended. With the DLL driver, you can easily link to VC++®, Visual Basic® or BCB.

Specifications

- **Axes** — 4, independent
- **Max. Step Count** — 16,777,215
- **Max. Step Rate** — 400 kpps
- **Acceleration Mode** — T or S-curve acceleration/deceleration
- **Pulse Output Mode** — Pulse/direct and CW/CCW
- **I/O for each Axis** — ORG, +SD, -SD, +Lmt, -Lmt
- **General I/O** — 8 ch Opto-isolated digital output and input
- **Input Range** — 5 V ~ 30 V
- **Isolated Voltage** — 1500 V_{DC}
- **Max. Sink Current** — 200 mA

General

- **Power Consumption** — +5 V @ 340 mA; +5 V @ 500 mA (max)
- **Operating Temperature** — 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** — 5 ~ 95% non-condensing
- **Storage Temperature** — -20 ~ 80° C

Ordering Information

- **PCI-1243** — 4-Axis Stepping Motor Control card
- **PCL-10162-1** — DB62 Cable Assembly, 1M
- **PCL-10162-3** — DB62 Cable Assembly, 3M
- **ADAM-3962** — DB62 wiring terminal with DIN-rail mounting

Pin Assignments

Signal	Signal	Pin		Pin	Signal
EXT_COM			22		
NC	EMG	1	23	43	Tri_STA
EXT_GND	ADIR	2	24	44	AOUT
AORG	ALIM-	3	25	45	ALIM+
ALCOM	ASD-	4	26	46	ASD+
EXT_GND	BDIR	5	27	47	BOUT
BORG	BLIM-	6	28	48	BLIM+
BLCOM	BSD-	7	29	49	BSD+
EXT_GND	CDIR	8	30	50	COUT
CORG	CLIM-	9	31	51	CLIM+
CLCOM	CSD-	10	32	52	CSD+
EXT_GND	DDIR	11	33	53	DOUT
DORG	DLIM-	12	34	54	DLIM+
DLCOM	DSD-	13	35	55	DSD+
IDO2	IDO0	14	36	56	IDO1
IDO5	IDO3	15	37	57	IDO4
IDO_COM	IDO6	16	38	58	IDO7
NC	EXT_GND	17	39	59	EXT_GND
IDI2	IDI0	18	40	60	IDI1
IDI5	IDI3	19	41	61	IDI4
IDI_COM	IDI6	20	42	62	IDI7
	NC	21			