

PCI-1220U PCI-1240U PCI-1243U

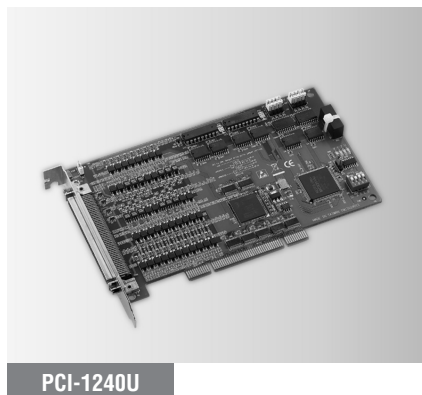
2-axis Stepping and Servo Motor Control Universal PCI Card

4-axis Stepping and Servo Motor Control Universal PCI Card

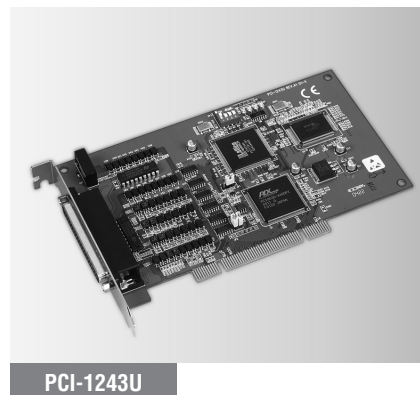
4-axis Stepping Motor Control Universal PCI Card



PCI-1220U



PCI-1240U



PCI-1243U

Specifications

Pulse Type Motion Control

- Motor Driver Support 4
- Number of Axis 2-axis linear, 2-axis circular
- Interpolation 4 Mpps
- Max. Output Speed $\pm 2, 147, 483, 646$ (32-bit)
- Step Count Range Pulse/direction (1-pulse, 1-direction type), or CW/CCW (2-pulse type)
- Pulse Output Type Range of command and actual position
- Position Counters T-Curve, S-Curve
- Velocity Profiles Machine Interfaces: LMT+, LMT-, ORG
- Local I/O Servo Driver Interfaces: ALM, RDY, SVON, INP

Encoder Interface

- Input Type Quadrature (A/B phase or up/down)
- Counts/Enc. Cycle x1, x2, x4 (A/B phase only)
- Input Range 5 ~ 25 V
- Isolation Protection 2,500 V_{DC}
- Max. Input Freq. 1 MHz

General

- Bus Type PC/104
- Certification CE, FCC Class A
- Connectors 2 x IDC 50-pin male connector
- Dimensions (L x H) 96 x 90 mm (3.8" x 3.5")
- Power Consumption Typical: 5 V @ 850 mA
- Humidity Max.: 5 V @ 1 A
- Operating Temp. 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- Storage Temp. 0 ~ 60°C (32 ~ 140°F)

Ordering Information

- PCI-1220U-AE 2-axis Stepping and Servo Motor Control Universal PCI Card

Accessories

- ADAM-3952-AE 50-pin DIN-rail SCSI and Box Header Board
- PCL-10150-1.2E IDC-50 Flat Cable, 1.2m (PCM-3240 only)
- PCL-10152-1E/3E 50-pin SCSI M-M Shielded Cable, 1m/3m
- PCL-10153PA5-2E 50-pin Cable to Panasonic A4/A5 Servo, 2 m
- PCL-10153PA5LS-2E 50-pin Cable to Panasonic MINAS A Servo, 2 m
- PCL-10153YS5-2E 50-pin Cable to Yaskawa Sigma V/7 Servo, 2 m
- PCL-10153MJ3-2E 50-pin Cable to Mitsubishi J3/J4 Servo, 2 m
- PCL-10153DA2-2E 50-pin Cable to Delta A2 Servo, 2 m

Specifications

Pulse Type Motion Control

- Motor Driver Support 4
- Number of Axis 2-axis linear, 3-axis linear, 2-axis circular
- Interpolation 4 Mpps
- Max. Output Speed $\pm 2, 147, 483, 646$ (32-bit)
- Step Count Range Pulse/direction (1-pulse, 1-direction type), or CW/CCW (2-pulse type)
- Pulse Output Type Range of command and actual position
- Position Counters T-Curve, S-Curve
- Velocity Profiles Machine Interfaces: LMT+, LMT-, ORG
- Local I/O Servo Driver Interfaces: ALM, RDY, SVON, INP

Encoder Interface

- Input Type Quadrature (A/B phase or up/down)
- Counts/Enc. Cycle x1, x2, x4 (A/B phase only)
- Input Range 5 ~ 25 V
- Isolation Protection 2,500 V_{DC}
- Max. Input Freq. 1 MHz

General

- Bus Type PC/104
- Certification CE, FCC Class A
- Connectors 2 x IDC 50-pin male connector
- Dimensions (L x H) 96 x 90 mm (3.8" x 3.5")
- Power Consumption Typical: 5 V @ 850 mA
- Humidity Max.: 5 V @ 1 A
- Operating Temp. 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- Storage Temp. 0 ~ 60°C (32 ~ 140°F)

Ordering Information

- PCI-1240U-B2E 4-axis Stepping and Servo Motor Control Universal PCI Card

Accessories

- ADAM-3956-AE 100-pin DIN-rail SCSI 4-axis Motion Wiring Board
- ADAM-3955-AE 50-pin DIN-rail SCSI 2-axis Motion Wiring Board
- ADAM-3952-AE 50-pin DIN-rail SCSI and Box Header Board
- ADAM-39100-AE 100-pin DIN-rail SCSI Wiring Board
- PCL-101100M-1E/2E/3E 100-pin SCSI Cable, 1m/2m/3m
- PCL-10150-1.2E IDC-50 Flat Cable, 1.2m (PCM-3240 only)
- PCL-10251-1E/2E/3E 100-pin SCSI to Two 50-pin SCSI Cable, 1m/2m/3m
- PCL-10153PA5-2E 50-pin Cable to Panasonic A4/A5 Servo, 2 m
- PCL-10153PA5LS-2E 50-pin Cable to Panasonic MINAS A Servo, 2 m
- PCL-10153YS5-2E 50-pin Cable to Yaskawa Sigma V/7 Servo, 2 m
- PCL-10153MJ3-2E 50-pin Cable to Mitsubishi J3/J4 Servo, 2 m
- PCL-10153DA2-2E 50-pin Cable to Delta A2 Servo, 2 m

Specifications

Pulse Type Motion Control

- Motor Driver Support Stepping
- Number of Axis 4
- Max. Output Speed 400 kpps
- Step Count Range 0 ~ 16, 777, 215
- Pulse Output Type Pulse/Direction, CW/CCW
- Position Counters $\pm 16, 777, 215$
- Home Modes 4
- Velocity Profiles T-Curve or S-Curve
- Local I/O Interfaces acceleration/deceleration
- General Input Channels PEL x 4, NEL x 4, RG x 4, SLD x 4, EMG x 1
- General Output Channels 8

Isolated Digital Input

- Channels 8
- Input Voltage Logic 0: 1 V
- Isolation Protection Logic 1: 12 V (24 V max.)
- Opto-Isolator Response 3,750 V_{RMS}
- Input Resistance 25 μ s

Isolated Digital Output

- Channels 8
- Output Type Sink (NPN)
- Isolation Protection 3,750 V_{RMS}
- Output Voltage 5 ~ 30 V_{DC}
- Sink Current 200 mA max./channel; 1.1 A max. total
- Opto-Isolator Response 25 μ s

General

- Bus Type PCI V2.2
- Certification CE, FCC Class A
- Connectors 1 x DB-62 female
- Dimensions 175 x 100 mm (6.9" x 3.9")
- Power Consumption Typical: 5 V @ 340 mA
- Storing Humidity Max.: 5 V @ 500 mA
- Operating Temperature 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- Storing Temperature 0 ~ 60°C (32 ~ 140°F)

Ordering Information

- PCI-1243U-AE 4-axis Stepping Motor Control Card

Accessories

- PCL-10162-1E DB-62 Cable Assembly, 1m
- PCL-10162-3E DB-62 Cable Assembly, 3m
- ADAM-3962-AE DB-62 Wiring Board with DIN-rail Mounting