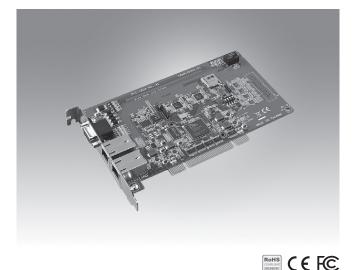
PCI-1203

2-Port EtherCAT Universal PCI MDevice Card



Features

- 650MHz dual-core ARM processor
- 2 x EtherCAT ports for high-performance of motion and I/O applications
- Supports common motion SDK for rapid application development •
- Up to 32 axes support for motion control
- Supports a maximum of 6 motion groups and 8 axes per group
- Supports on board 8-CH isolated DI and 4-CH isolated DO
- Diagnostics for fast error handling can trace command and error message

Introduction

The PCI-1203 is a 2-port EtherCAT PCI Universal card. It is a ready-to-use EtherCAT development platform for all PC-based industrial automation. The EtherCAT protocol stack is executed autonomously on the PCI card. It allows the host to handle up to two EtherCAT networks with extremely short cycle time for Motion and pure I/O applictions. For EtherCAT motion port, communication cycle time is no more than 500 us for connecting 32 axes of servo motors and for fast I/O ports the cycle time is no more than 200us in a high speed I/O system.. There are 4 - channel isolated digital outputs and 8 - channel isolated inputs on the PCI-1203 to meet the extra high speed I/O requirements. Real-time and high-precision capability are features of PCI-1203. In addition, all Advantech motion controllers use the "Common Motion API" architecture which is a unified user programming interface and graphical utility. This architecture saves application maintenance and upgrades. Programmers can benefit from using any Advantech SoftMotion controller without changing large amounts of the application code. User-friendly examples decrease programming load, helping users complete configuration and diagnosis easily.

Specifications

EtherCAT

 Number of Rings Cable Type Cycle Time Motion SubDevice I/O SubDevice 	2 (Motion x 1, I/O x 1) CAT5 STP/SFTP Ethernet cable and above Motion: 500 us I/O: 200 us 32 Servo Drive Max.(eq. Panasonic A5B) 1024-CH DI and 1024-CH DO 128-CH AI and 128-CH AO
Isolated Digital Input	
 Channels 	8
 Input Voltage 	Logic 0: 5 V max. Logic 1: 6 V min. (24V max.) Needs 24V _{DC} external power

- Isolation Protection
- Input Resistance

Isolated Digital Output

- Channels
- Output Type Isolation Protection
- Output Voltage
- Sink Current

AT5 STP/SFTP Ethernet cable and above
lotion: 500 us
0: 200 us
2 Servo Drive Max.(eq. Panasonic A5B)
024-CH DI and 1024-CH DO
28-CH AI and 128-CH AO

- 1,000 V_{DC} $8.4 \,\mathrm{k}\,\Omega$
- 4 Sink
- 1,000 V_{DC} 12~24 V_{DC}
- Max: 300 mA CH

General

- Bus Type
- Certification - Connectors
- Dimensions (L x H)
- Power Consumption
- Humidity
- Operating Temp. Storage Temp.
- 2 x RJ45. 1 x D-sub 15 175 x 100 mm (6.9" x 3.9") 5 V_{DC} @ 0.5 A typical 5 ~ 95% RH, non-condensing (IEC 60068-2-3) 0~60°C (32~140°F) -20 ~ 85°C (-4 ~ 185°F)

Universal PCI V2.2

CE, FCC Class A

Ordering Information

- PCI-1203-06AE PCI-1203-10A
- 2-port EtherCAT 6-axis Universal PCI MDevice Card
- PCI-1203-16A PCI-1203-32A
- 2-port EtherCAT 10-axis Universal PCI MDevice Card 2-port EtherCAT 16-axis Universal PCI MDevice Card
- 2-port EtherCAT 32-axis Universal PCI MDevice Card

Intelligent Motion Control and Machine Vision AD\ANTECH All product specifications are subject to change without notice.