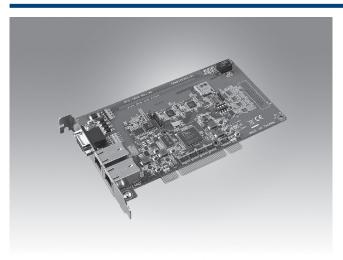
PCI-1203

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 of 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 extr. me., what cycle time for Motion and pure I/O applictions. For EtherCAT motion port, communication cycle time is no more than 500 µs for connecting 32 axes of servo motors and in at 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- 200 per 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. Program are solved benefit from using any Advantech SoftMotion controller without changing large amounts of the application code. User-friendly examples decrease programming load, he bing users complete configuration and diagnosis easily.

Specifications

EtherCAT

Number of Rings
 Cable Type
 Cycle Time
 2 (Motion x 1, I/O x 1)
 CAT5 STP/SFTP Ethernor cab a and above
 Motion: 500 us

I/0: 200 us

Motion SubDevice 32 Serv 3 Drive Now (eq. Panasonic A5B)

■ I/O SubDevice 1024-CH L and 1024-CH DO

Isolated Digital Input

Channels

■ Input Voltage Logic 0: 5 V max. Logic 1: 6 V min. (24V max.) Needs 24V_{DC} external power

■ Isolation Protection $1,000 \, V_{DC}$ ■ Input Resistance $8.4 \, k \, \Omega$

Isolated Digital Output

Channels 4
 Output Type Sink
 Isolation Protection 1,000 V_{DC}
 Output Voltage 12 ~ 24 V_{DC}
 Sink Current Max: 300 mA CH

General

Universal PCI V2.2 **Bus Type** Certification CE. FCC Class A Connectors 2 x RJ45. 1 x D-sub 15 Dimensions (L x H) 175 x 100 mm (6.9" x 3.9") 5 V_{DC} @ 0.5 A typical Power Consumption 5 ~ 95% RH, non-condensing (IEC 60068-2-3) Humidity Operating Temp. $0 \sim 60^{\circ} \text{C} (32 \sim 140^{\circ} \text{F})$ Storage Temp. -20 ~ 85°C (-4 ~ 185°F)

Ordering Information

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