

# CANopen Interface System with Copley Amplifiers

## Overview

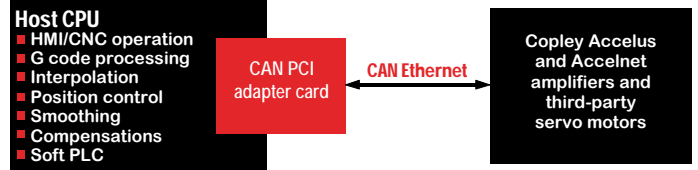
Soft Servo Systems offers a variety of PC-based CNC and general motion control (GMC) products for OEM machine builders. Each product is available with a choice of several servo and I/O communications hardware platforms, including the CANopen interface system.

This innovative servo system is based on CANopen digital servo communications technology, and works with Copley Control's Accelus™ and Accelnet™ digital servo amplifiers (and third-party servo motors).

In the CANopen platform, users connect exactly the number of servo drives they need.

## CANopen Features

- Economically efficient
- Simple setup and wiring
- Proven technology in use for over two decades
- Drive parameters can be changed on-the-fly
- Tightly synchronized drives close all servo loops (each servo amplifier closes the servo actuator's feedback loop locally)

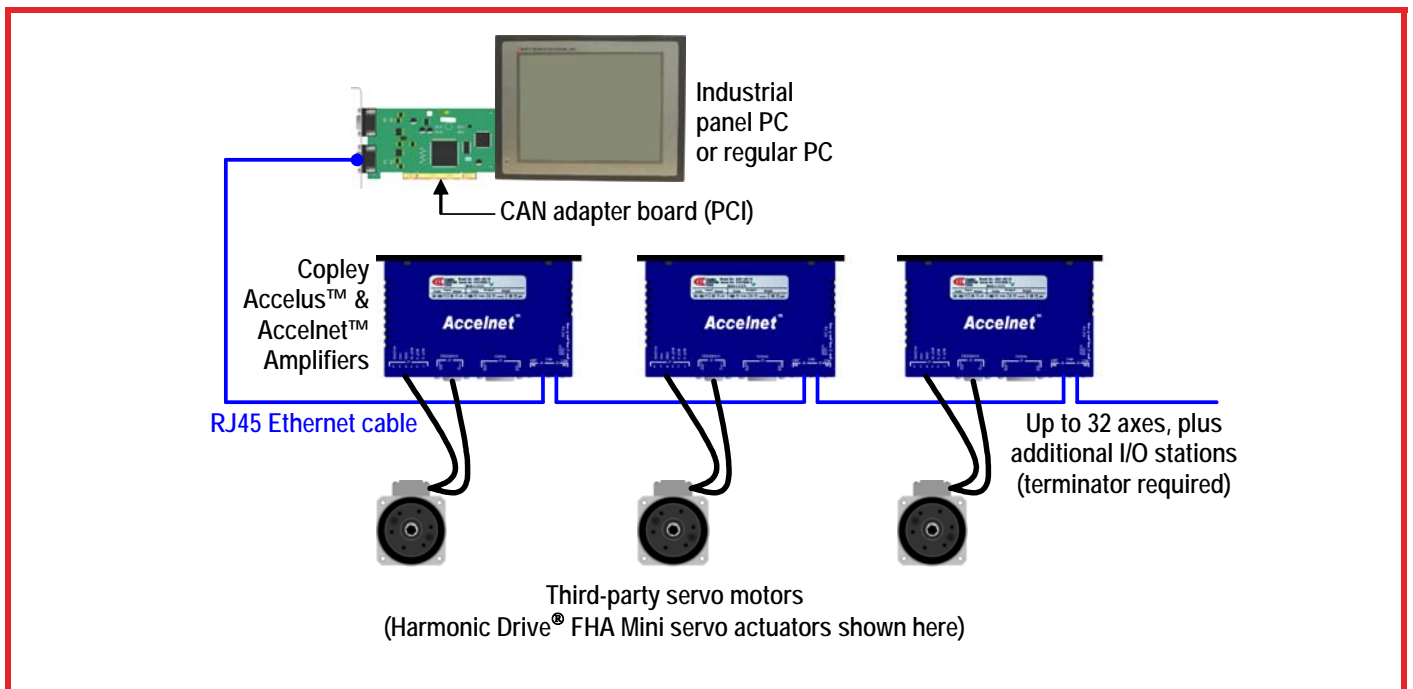


## CANopen Communications

CANopen is an economically efficient fieldbus network for industrial control, based upon CAN (Controller Area Network). This high-speed, real-time network provides simple, fast network control. Up to 32 stations (plus additional I/O stations) can be integrated in one network, using an RJ45 Ethernet interface cable and a CAN PC card, with no hardware interface modules necessary.

## CANopen Interface Specifications

- Cycle time of 4 ms
- CAN bit rate: up to 1 Mbit/sec
- Timestamp resolution: 1 μs



**Hardware Connections in the CANopen Interface System**

## I/O

Each Copley Accelus™ amplifier offers 6 digital inputs and 2 digital outputs; each Copley Accelnet™ amplifier offers 12 digital inputs and 3 digital outputs.

Networked Copley CANopen I/O modules will be available in the near future, and each will provide 72 points of digital I/O; 12 analog inputs; 12 PWM outputs; 8 dedicated digital inputs for the CAN node address and bit-rate; and 2 outputs for CAN status LED drive.

## Copley Controls Corporation

Copley Controls, a division of Analogic Corporation, is a worldwide leader in high power amplifiers for the semiconductor, medical, pharmaceutical and automated assembly/inspection industries. Headquartered in the US with a division in England, Copley Controls has 20 years of experience and sales offices and local technical support in the US, Europe and Asia. For more information, visit [www.copleycontrols.com](http://www.copleycontrols.com).



**CAN interface card for PCI  
from Copley Controls**



**Accelnet VDC digital drive  
for brushless/brush motors  
from Copley Controls**

