# APAX-5202P

## 2-port AMONet Master Module

**NEW**



CE FCC RoHS COMPLIANT 2002/95/EC

## Features

- Max. 20 Mbps transfer rate
- 2 x independent AMONet RS-485 master rings
- Max. 128 AMONet RS-485 slave modules supported
- Easy installation with RJ45 phone jack and LED diagnostic
- KW Multiprog software programming support

## Introduction

APAX-5202P is a PCI interface card which supports two AMONet RS-485 master rings, and transfers data between host and slaves directly without any operations in between. Each ring can control up to 2,048 I/O points, 256 axes, or a combination of I/O points and axes for motion control. The ring can support up to 20 Mbps transfer rate and a maximum communication distance of up to 100 meters. The communication between master and slave is based on a customized RS-485 solution that saves wires, covers a long distance, supports high-speed communication and has time-deterministic features. The communication interface between master and PAC is accomplished by memory mapping. Various functions can be chosen on the slave modules, and standard industrial DIN-rail mounting design makes it easy to distribute them in the field. The master collects information from slave modules and publishes the information to its PAC controller.

## Specifications

### AMONet RS-485 Motion Control

- **Connectors** RJ-45
- **LED Indictors** Active, Error (Each Port)
- **Number of Rings** 2
- **Transmission Speed** 2.5, 5, 10 or 20 Mbps with automatic data flow control
- **Serial Interface** Half duplex RS-485 with transformer isolation
- **Cable Type** CAT5 UTP/ STP Ethernet cable
- **Surge Protection** 10 kV
- **Communication Distance (Max.)** 100 m @ 20 Mbps w/32 slave modules
  100 m @ 10 Mbps w/64 slave modules
- **Slave Module Support** Digital I/O, Motion Control

### General

- **Certifications** CE, FCC Class A
- **Connectors** 2 x RJ45
- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Power Consumption** 2.5 W @ 5 $V_{DC}$ (typical)
- **Relative Humidity** 5 ~ 95% (non-condensing)
- **Operating Temperature** 0 ~ 60° C (mounted vertically)

## Ordering Information

- **APAX-5202P-AE** 2-port AMONet Master Module

Note: APAX-5202P can only be used by controllers with a PCI interface

### Accessories

- **AMAX-2241/PMA-AE** 4-axis AMONet Motion Module for Panasonic Minas A
- **AMAX-2242/J2S-AE** 4-axis AMONet Motion Module for Mitsubishi MR-J2S
- **AMAX-2243/YS2-AE** 4-axis AMONet Motion Module for Yaskawa Sigma-II
- **AMAX-2752SY-AE** 32-ch Isolated Digital Input AMONet Module
- **AMAX-2754SY-AE** 32-ch Isolated Digital Output AMONet Module
- **AMAX-2756SY-AE** 16/16-ch Isolated Digital I/O AMONet Module
- **PCL-10220M-2** 20-pin SCSI Cable, 2 m
- **PCL-10150M-2** 50-pin SCSI Cable, 2 m