AMAX-2210 Series
1-axis AMONet Motion Slave Modules

NEW

| AMAX-2210 | AMAX-2211/PMA | AMAX-2212/J2S | AMAX-2213/YS2 |

RoHS COMPLIANT 2002/95/EC CE

Features

- Max. 20 Mbps transfer rate
- Max. 6.5 MHz, 1-Axis pulse output
- 28 bits counter for incremental encoder
- Programmable acceleration and deceleration time
- T-curve and S-curve velocity profiles support
- Change speed on-the-fly
- Easy installation with RJ45 phone jack and LED diagnostic
- Easy installation for servo or stepping motor driver
- Suitable for DIN-rail mounting

Introduction

Products in the AMAX-2210 Series are used to increase the number of axes for an AMONet. RS-485 distributed motion control network. These extension slave modules connect serially by a simple and affordable Cat.5 LAN cable, reducing the wiring between driver and controller. This is very suitable for highly integrated machine automation applications.

AMONet. RS-485 has driver specific motion slave modules to support a range of common motor vendors such as: Mitsubishi J2-Super series, Panasonic Minas A type, and Yaskawa Sigma-II. Please select the respective cable SCSI-20P or SCSI-50P and plug this cable into the motor driver and motion slave module.

AMONet. RS-485 also supports a general purpose motion slave module for general motor drivers, including step motor drivers. This general purpose motion slave module is designed with many detachable terminals to support easy wiring. Please refer to the related installation guides.

Specifications

Pulse Type Motion Control

- **Motor Driver Support** Pulse-type servo
- **Number of Axes** 1
- **Interpolation** None
- **Max. Output Speed** 6.5 Mpps
- **Step Count Range** ±134, 217, 728
- **Pulse Output Type** ±OUT/DIR, ±CW/CCW, ±A/B phase
- **Position Counter** ±134, 217, 728
- **Home Modes** 13
- **Velocity Profiles** T-curve, S-curve
- **Local I/O**
  Machine Interfaces EL+ x 1, EL- x 1, ORG x 1, SD x 1
  Servo Driver Interfaces ALM x 1, RDY x 1, SVON x 1, INP x 1, ERC x 1
  Position Compare I/O LTC x 1, CMP x 1
  General Inputs 2
  General Outputs 2

Encoder Interface

- **Input Type** AB phase, CW/CCW
- **Counts per Enc. Cycle** x0, x1, x2, x4 (AB phase only)
- **Input Range** Compatible with TIA/EIA-422 Differential Line Driver I = ±20 mA, VOD = ±2 V/min
- **Isolation Protection** 2,500 Vrms
- **Max. Input Frequency** 2 MHz @ 5V

General

- **Bus Type** AMONet RS-485
- **Certifications** CE
- **Connectors** RJ45 x 2, SCSI-20P x 2 (AMAX-2212/J2S), SCSI-50P x 1 (AMAX-2211/PMA and AMAX-2213/YS2)
- **Dimensions (L x W x H)** 126 x 46 x 162 mm
- **LED Indicators** PWR, RUN, ERR, EMG, ORG, SD, EL-, EL+, SVON, BSY, INP, ALM
- **Power Consumption** 3 W @ 24 V typical
- **Power Input** 24 V_{DC} within 200 mA ripple
- **Humidity** 5 ~ 95% RH, non-condensing (IEC 68-2-3)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)

Ordering Information

- **AMAX-2210** 1-axis AMONet RS-485 Motion Slave Module
- **AMAX-2211/PMA** 1-axis AMONet RS-485 Motion Slave Module for Panasonic Minas A
- **AMAX-2212/J2S** 1-axis AMONet RS-485 Motion Slave Module for Mitsubishi MR-J2S
- **AMAX-2213/YS2** 1-axis AMONet RS-485 Motion Slave Module for Yaskawa Sigma-II
- **PCL-10220M-2** SCSI 20-pin cable, 2 m (Optional for AMAX-2242/J2S)
- **PCL-10150M-2** SCSI 50-pin cable, 2 m (Optional for AMAX-2241/PMA and AMAX-2243/YS2)

All product specifications are subject to change without notice

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