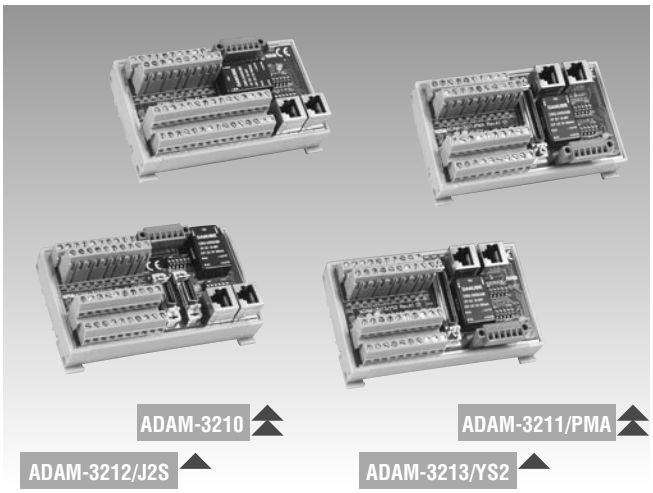
ADAM-3210 Series

1-axis AMONet™ RS-485 Motion Slave Modules



Features

- DIN rail mounting (L-124 x W-72 x H-53 mm)
- 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

Introduction

Products in the ADAM-3210 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 screw 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: PEL x 1, MEL x 1, ORG x 1, SLD 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** Quadrature (AB phase), Up/Down
- **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

General

- **Bus Type** AMONet RS-485
- **Certifications** CE
- **Connectors** RJ45 x2
  SCSI-20P x 2 (ADAM-3210/J2S)
  SCSI-50P x 1 (ADAM-3210/YS2/PMA)
- **Dimensions (LxWxH)** 124 x 72 x 53mm (4.9" x 2.8" x 2.1")
- **LED Indicators** PWR, RUN, ERR, PEL, MEL, ORG, SLD
- **Power Consumption** 3 W @ 24 V typical
- **Power Supply** 18 ~ 30 V_{DC}
- **Humidity** 5 ~ 95% RH, non-condensing (IEC 68-2-3)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)

Ordering Information

- **ADAM-3210** 1-Axis General Purpose AMONet™ RS-485 Slave Module
- **ADAM-3211/PMA** 1-Axis AMONet™ RS-485 Slave Module for Panasonic® Minas A Servo driver
- **ADAM-3212/J2S** 1-Axis AMONet™ RS-485 Slave Module for Mitsubishi® MR-J2S Servo driver
- **ADAM-3213/YS2** 1-Axis AMONet™ RS-485 Slave Module for Yaskawa® Sigma-II Servo driver
- **PCL-10120M-2** SCSI 20-pin cable, 2m (Optional for ADAM-3212/J2S)
- **PCL-10150M-2** SCSI 50-pin cable, 2m (Optional for ADAM-3211/PMA and ADAM-3213/YS2)

All product specifications are subject to change without notice
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