# AMAX-2240 Series 4-axis AMONet Motion Slave Modules



#### **Features**

- Max. 20 Mbps transfer rate
- Max. 6.5 MHz. 4-axis pulse output
- 28 bits counter for incremental encoder
- 2 ~ 4-axis linear interpolation
- 2-axis circular interpolation
- 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

AMAX-2240 series is used to increase the number of axes for an AMONet RS-485 decentralized 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. Please select cable 20-pin SCSI and plug this cable into the motor driver and motion slave module.

## **Specifications**

#### **Pulse Type Motion Control**

 Motor Driver Support Pulse-type servo

Number of Axis

Interpolation Linear and circular Max. Output Speed 6.5 Mpps Step Count Range ±134, 217, 728

OUT/DIR, CW/CCW, A/B phase Pulse Output Type

 Position Counter ±134, 217, 728 Home Modes

 Velocity Profiles T-Curve, S-Curve

Local I/O

EL+ x 4, EL- x 4, ORG x 4, SD x 4 Machine Interfaces: ALM x 4, RDY x 4, SVON x 4, INP x 4, ERC x 4 Servo Driver Interfaces:

Position Compare I/O: LTC x 4, CMP x 4

**Encoder Interface** 

Input Type A/B phase, CW/CCW Counts per Enc. Cycle 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 V<sub>RMS</sub> Max. Input Frequency 2 MHz @ 5 V General

Bus Type AMONet RS-485 Certification CE. FCC Class A

Connectors AMAX-2242/J2S: 2 x RJ45 and 8 x 20-pin SCSI AMAX-2241/PMA & AMAX-2243/YS2: 4 x 50-pin SCSI

**Dimensions (L x W x H)** 125 x 47.6 x 151 mm (4.9" x 1.8" x 5.9")

**Power Consumption** 5 W @ 24 V typical Power Input 24 V<sub>DC</sub> within 200 mV ripple

5 ~ 95% RH, non-condensing (IEC 60068-2-3)

**Operating Temperature**  $0 \sim 60^{\circ}\text{C}$  (32 ~ 140°F)

# **Ordering Information**

 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

**Accessories** 

PCL-10220M-2E 20-pin SCSI Cable, 2 m (for AMAX-2242/J2S) 50-pin SCSI Cable, 2 m (for AMAX-2241/PMA and PCL-10150M-2E

AMAX-2243/YS2)

 ADAM-3940-AE 40-pin Flat Cable Wiring Board with LED

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