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



## **Features**

- Max. 20 Mbps transfer rate
- Max. 6.5 Mhz. 4-Axes pulse output
- 28 bits counter for incremental encoder
- 2~4 axes Linear interpolation
- 2 axes 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



# Introduction

AMAX-2240 series is 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. Please select cable SCSI-20P 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 Axes

Interpolation Linear or Circular 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

 Velocity Profiles T-curve, S-curve

- Local I/O

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

Position Compare I/O LTC x 4. CMP x 4

**Encoder Interface** 

Input Type AB phase, CW/CCW - Counts per Enc. Cycle x1, x2, x4 (AB phase only)

Compatible with TIA/EIA-422 Differential Line Driver Input Range

 $I = \pm 20 \text{ mA,VOD} = \pm 2 \text{ V/min}$ 

Isolation Protection 2,500 Vrms • Max. Input Frequency 2 MHz @ 5 V

#### General

Bus Type AMONet RS-485

Certifications

Connectors RJ45 x 2, SCSI-20P x 8 (only AMAX-2242/J2S)

SCSI-50P x 4 (AMAX-2241/PMA and AMAX-2243/

**Dimensions (L x W x H)** 125 x 47.6 x 156 mm **Power Consumption** 5 W @ 24 V typical Power Input 24 V<sub>DC</sub> within 200mA ripple

Humidity 5 ~ 95% RH, non-condensing (IEC 68-2-3)

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

# **Ordering Information**

 AMAX-2241/PMA 4-axis AMONet RS-485 Motion Slave Module for

Panasonic Minas A

4-axis AMONet RS-485 Motion Slave Module for AMAX-2242/J2S

Mitsubishi MR-J2S

4-axis AMONet RS-485 Motion Slave Module for AMAX-2243/YS2

Yaskawa Sigma-II

PCL-10220M-2 SCSI 20-pin x 2 cable PCL-10150M-2 SCSI 50-pin cable

ADAM-3940 Terminal Board for AMAX-2240 series